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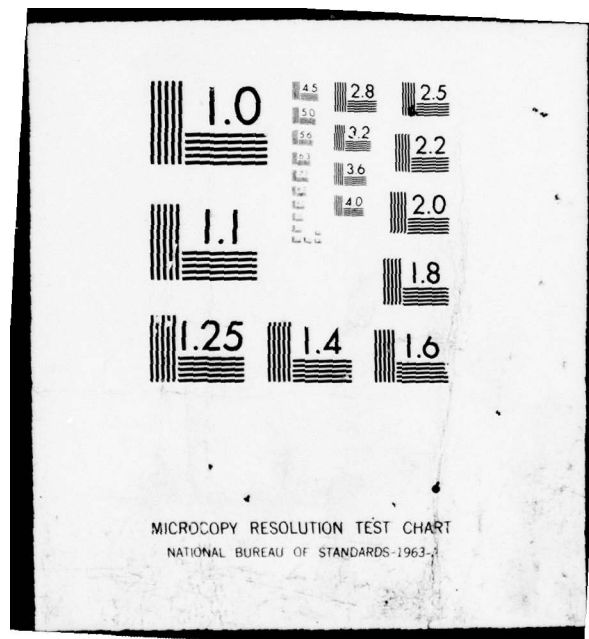
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PHYSICAL, CHEMICAL AND BIOLOGICAL DATA,

INDOPAC EXPEDITION,

Legs I, II, III, VII, VIII, XV, XVI,
23 March 1976 - 31 July 1977.

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UNIVERSITY OF CALIFORNIA
SCRIPPS INSTITUTION OF OCEANOGRAPHY

PHYSICAL, CHEMICAL AND BIOLOGICAL DATA

INDOPAC Expedition

Leg I, 23 March to 30 April 1976
Leg II, 5 to 19 May 1976
Leg III, 25 May to 19 June 1976
Leg VII, 14 to 29 August 1976
Leg VIII, 2 to 30 September 1976
Leg XV, 3 to 30 June 1977
Leg XVI, 5 to 31 July 1977

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Sponsored by

Office of Naval Research (Legs VII, VIII, XV, XVI)
National Science Foundation (Legs I, II, III, XV, XVI)
University of California (Legs XV, XVI)

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INTRODUCTION

INDOPAC Expedition aboard RV THOMAS WASHINGTON was a joint physical, biological and geophysical oceanographic expedition in the Pacific and eastern Indian Oceans during 1976-1977. This report presents the hydrographic data and most of the chemical data collected on Legs I, II, III, VII, VIII, XV and XVI, all in the Pacific Ocean. No hydrographic collecting was done on the other legs of the expedition.

Preceding the tabulated data for each cruise are: (1) a description of the principal objective and the hydrographic work carried out on the cruise; (2) sponsoring agency; (3) a description of all "non-standard" procedures; and (4) a list of scientific personnel participating in the collection of data.

STANDARD PROCEDURES

Hydrographic Cast Data

Temperature was measured using paired deep-sea reversing thermometers and is reported to hundredths of a Celsius degree except for the deepest levels where specially scaled low range thermometers were read and tabulated to thousandths of a degree. Most bottles below 100 meters included unprotected (pressure) thermometers for depth determination.

Water samples were obtained from Niskin bottles on Leg I and from Nansen bottles on all other legs. Bottles were hung on the STD wire in conjunction with STD lowerings on most stations. (The major exception is Leg XV where only four stations have the STD and bottle cast lowered together.)

Salinity was determined using Bissett Berman (now Plessey Environmental Systems) inductive salinometers and a University of Washington (1960) conductive salinometer.

Dissolved oxygen was determined by the Winkler method as modified by Carpenter (1965) using the equipment and procedures outlined by Anderson (1971).

On Legs I, II, III, VII and VIII:

1. Reactive phosphate was determined using a Gilford modified Beckman Model DU spectrophotometer by the method of Murphy and Riley (1962) as described by Anderson (1971). The modification consisted of a Gilford Model 222A photometer, Model 2220 adapter, Model 2470-A ten centimeter cuvette compartment and Model 410 digital absorbance meter.

2. Reactive silicate, reactive nitrate and reactive nitrite were determined using a Technicon Model II AutoAnalyzer by the method of Atlas *et al.* (1971). Reactive phosphate was also run on the AutoAnalyzer but the spectrophotometer data are tabulated in this report.

On Leg XVI all nutrients (phosphate, silicate, nitrate and nitrite) were determined using a standard Beckman Model DU spectrophotometer. Reactive phosphate was done using the method of Murphy and Riley (1962), with the specific procedure outlined by Anderson (1971), reactive silicate by the method of Strickland and Parsons (1968); nitrate by the method of Wood, *et al.* (1967) and nitrite by the method of Bendschneider and Robinson (1952). The specific procedures used for silicate, nitrate and nitrite are outlined in Marine Technician handbooks in preparation. In addition, nitrates were run on a mini-autoanalyzer using an AA-I (15 channel) pump, an Hitachi model 100-1005 spectrophotometer with a 10mm flow cell and an Hitachi model 50 single pen recorder. The methodology was as described by Hager *et al.* with slight modifications to the pump tubes used to increase sample signal to compensate for the smaller flow cell used, 10 rather than 15mm. Sampling was done by hand using a stop watch, 2 1/2 minutes for a sample with 1/2 minute rinse.

The nitrate values contained in the Leg XV and XVI sections of this report are averages of the values from the two methods. The samples used for the two methods of analysis were collected from the same bottle and were processed at the same time. The numerical differences between the methods were very small so they were averaged. The nutrients for the two stations on Leg XV (S22 and S38) were frozen and run at the beginning of Leg XVI.

The observed data has been evaluated using the method described by Klein (1973). This involves consideration of their variation as functions of density or depth and their relations to each other, and comparison with adjacent observations.

Chlorophyll and phaeophytin on Legs I, XV and XVI were determined fluorometrically according to the procedure of Yentch and Menzel (1963) as modified by Holm-Hansen *et al.* (1965).

Primary production on Legs I and XV was determined by the uptake of radio-carbon (Steemann Nielsen, 1952) using a modification of the procedure outlined by Strickland and Parsons (1968; Sec. V.3). The transparency of the ocean water was estimated from secchi disc measurements assuming the depth of 1% illumination to be three times the secchi disc depth. Water samples were collected with Niskin bottles from depths of 98%, 60%, 38%, 16%, 6% and 1.5% transmission. Subsamples of 250 ml were inoculated with 20 μ Ci of $\text{NaH}^{14}\text{CO}_3$ and incubated on deck in a seawater cooled incubator equipped with neutral density filters to simulate *in situ* light intensities (Owen and Zeitschel, 1970). From each depth there were duplicate light bottles and a dark bottle. Samples were incubated from approximately noon until shortly after sunset. Samples were filtered onto 0.45 μ m Millipore filters, acid fumed by 2-4 hour exposure to concentrated HCl fumes in a closed container, and stored in scintillation liquid (Aquasol) until returned to the lab nine months later when they were counted with a scintillation counter. The total production values presented in this report are the means of the replicate light bottles from which the dark uptake has

been subtracted. The values have not been adjusted to a standard time period since it is felt that such extrapolation is not always valid (Venrick *et al.*, 1977).

Water samples for primary productivity analyses on Leg I were taken from the Niskin bottles used on the regular hydrographic casts, and Leg XV samples were from special Niskin bottle casts with no temperature or salinity data.

In Situ Salinity/Temperature/Depth Recorder (STD) Data

Plessey Environmental Systems Model 9040 STDs were used for most lowerings. A Bissett Berman (HYTECH) Model 9006 STD was used on a few stations. Data recordings were made on a Plessey digital data logger (DDL) Model 8400 and on the shipboard IBM 1800 computer. This report contains data from the Model 8400 DDL.

One of the STD pressure sensors was found to have a temperature dependent pressure error of 1 decibar per 4° Celcius. The pressures were corrected using the *in situ* temperature. Depth was calculated from the pressure, the mean density of the overlaying water column, and the local value of gravity.

A time lag constant together with a small offset correction based on the hydrographic data were applied to the temperature from all STD lowerings.

Salinity spikes caused by the time constant variation between temperature and conductivity sensors were eliminated from most stations with one time constant. However, stations which had rapid temperature gradients required larger time constants.

Faulty pyrex liners in the conductivity sensor of the STD caused the salinity to drift during part of the expedition. Based on the hydrographic data, a pressure dependent salinity offset correction was applied to each STD lowering.

After correcting the STD data for time lags and offset errors, all three parameters were smoothed by means of a 1-2-1 5 decibar block average of the data for all Legs except XV which had a 3 decibar block average.

An indication of the precision of the STD data was obtained by comparing the STD data with the hydrographic data at the surface layer and deepest levels of the bottom casts on Leg I. The following table shows the average differences and standard deviations between the hydrographic data and the STD:

	TEMPERATURE °C		SALINITY ‰	
	MEAN	STD. DEV.	MEAN	STD. DEV.
SURFACE LAYER	.01	.02	-.003	.012
> 3500 m	.001	.003 ⁵	-.001	.002 ⁵

The STD temperature and salinity data are tabulated in this report to the nearest hundredths between the surface and 1500 meters and to the nearest thousandths below 1500 meters.

TABULATED DATA

The time reported is Greenwich Mean Time. For STD lowerings it is the "start down" time, and for bottle casts it is the time of messenger release. When more than one cast was lowered on a station the messenger times for the first and last casts are given. Multiple casts, excluding the surface cast, are indicated by a letter following the observed depth.

Station positions were based on satellite navigation and are for the messenger time on single cast stations. On multiple cast stations the deep cast messenger time position was used for hydrographic and STD data, and the shallow cast messenger time was used for chlorophyll, phaeophytin and primary productivity.

Bottom depths, determined acoustically, have been corrected using Matthews

(1939) tables and are reported in meters. No correction for the depth of the ship's transducer was made; approximately four meters can be added to the reported depth.

Weather and dominant waves are coded using the National Oceanographic Data Center (NODC) method.

Data from the bottle casts appears on the even numbered pages for all legs except Leg XV. Temperature, salinity and oxygen are interpolated from the observations on the right. Computed values of thermosteric anomaly are included with the observed levels and computed values of sigma-t, thermosteric anomaly and geopotential anomaly are included with the interpolated levels.

Data from the STD lowerings appears on the facing odd numbered pages for all legs except Leg XV. Temperature and salinity are tabulated at closer standard intervals than in previous reports. Computed values of sigma-t, thermosteric anomaly and geopotential anomaly are included. A "U" following the station number indicates an up cast, that is, the data was recorded while the STD was being raised. Up casts were usually used only if there was a problem with the data recorded while the STD was lowered.

The column headings are to be interpreted as follows:

Z	Depth	Meters
T	Temperature	°C
S	Salinity	‰
O2	Dissolved Oxygen	ml/L
PO4	"Reactive" inorganic phosphate-phosphorus	µg at/L
SI03	"Reactive" inorganic silicate-silicon	µg at/L
NO2	"Reactive" inorganic nitrite-nitrogen	µg at/L
NO3	"Reactive" inorganic nitrate-nitrogen	µg at/L
DT	δ_T Thermosteric anomaly	cl/ton
SIGT or SIGMA T	$\sigma_t = (\rho_{s,t,0} - 1) 10^3$ where $\rho_{s,t,0}$ is the density the parcel of sea water would have if moved isothermally to the sea surface.	g/L
DD	Geopotential anomaly, referred to the sea surface.	dynamic meters

FOOTNOTES

In addition to footnotes, several special notations are used without footnotes because the meaning is always the same.

A, B, and C: After depth value indicates successively deeper casts on expedition legs which have multiple cast stations. The upper cast originating at or near the surface has no letter following the depth.

K: Both protected thermometers in the sample bottle malfunctioned. The temperature was inferred from the pressure thermometer and wire depth. For this expedition, the values are believed accurate to $\pm 0.05^{\circ}\text{C}$.

U: Uncertain value. Values which are not used in interpolation because they seem to be in error without apparent reason. NOTE: "U" following STD station number indicates the up cast data are being reported.

V: Because of time differences, overlapping casts show some differences. Values not used in interpolation.

PUBLICATIONS UTILIZING INDOPAC EXPEDITION DATA

- Kenyon, Kern E., 1977. A transpacific XBT section at 35°N. *Polymode News*, No. 30, July 8, 1977 (unpublished document).
- Kenyon, Kern E., 1978. The surface layer of the eastern North Pacific in winter. *J. Geophys. Res.*, 83: 6115-6122.
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- Kenyon, Kern E., 1978. Indirect evidence of deep-flow east of the North Pacific seamount. *J. Oceanogr. Soc. Japan*, 34 (in Press).
- Mantyla, Arnold W., and Joseph L. Reid, 1978. Measurements of water characteristics at depths greater than 10 km in the Marianas Trench. *Deep-Sea Res.*, 25: 169-173.
- Millero, F. J., D. Forsht, D. Means, J. Gieskes, and K. E. Kenyon, 1978. The density of North Pacific ocean waters. *J. Geophys. Res.*, 83: 2359-2364.
- Reid, Joseph L. and Arnold W. Mantyla, 1978. On the mid-depth circulation of the North Pacific Ocean. *J. Phys. Oceanogr.*, 8: 946-951.
- Venrick, Elizabeth L., 1978. Systematic sampling in a planktonic ecosystem. *Fisheries Bulletin*, 76(3).
- Venrick, Elizabeth L., 1978. The lateral extent and characteristics of the North Pacific Central Environment at 35°N. *Deep-Sea Res.* (manuscript submitted September, 1978).

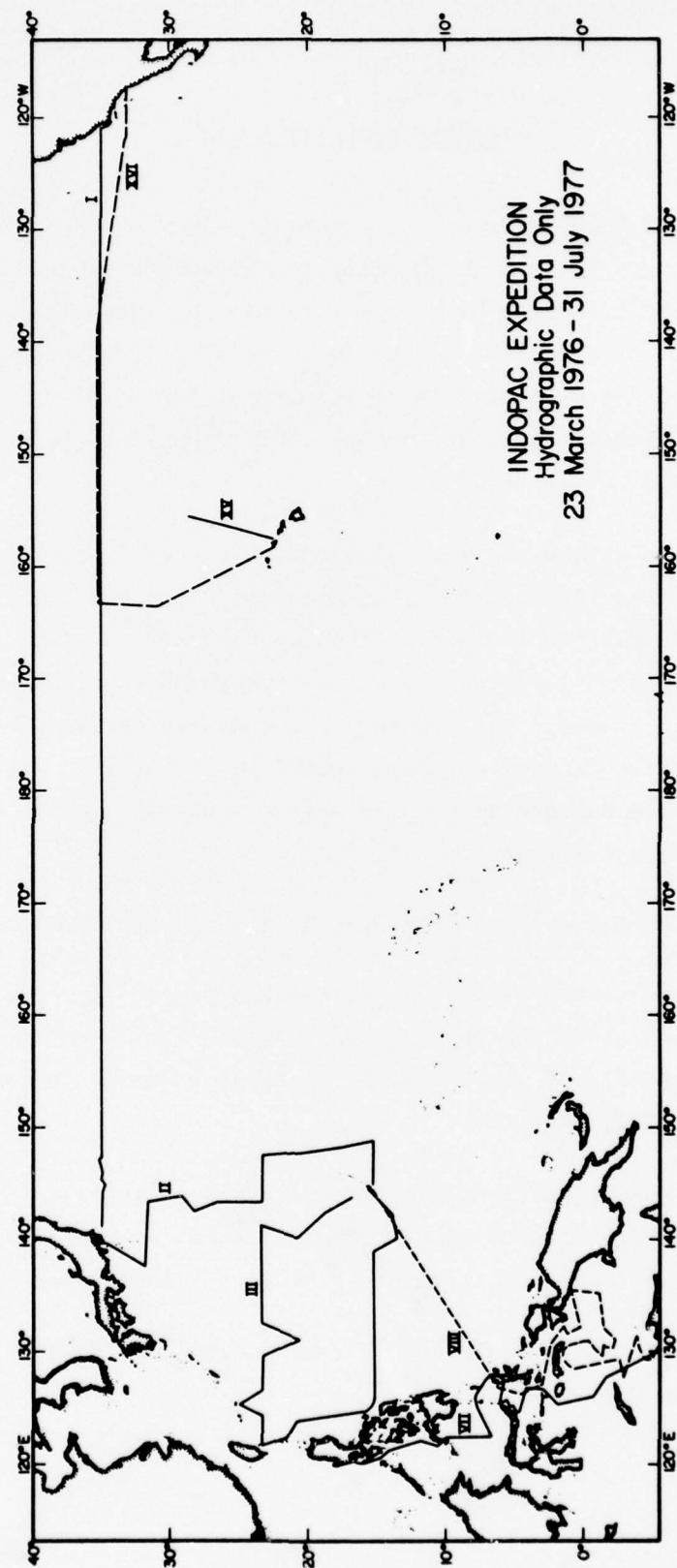


FIGURE 1

INDOPAC EXPEDITION LEG I

Leg I of INDOPAC Expedition was a systematic study of the physical and chemical oceanography from the surface to the bottom along Latitude 35° North in the Pacific Ocean between California and Japan from 23 March to 30 April 1976. Ninety-eight hydrographic stations (numbered 1 to 98) were occupied at one-degree intervals of longitude (100 km) from 122°W to 141°E (fig. 2). Expendable bathythermograph (XBT) drops were made at 20 kilometer intervals on and between stations.

The main purpose of the physical oceanography program was to obtain a better description of the large scale circulation of the upper layers at mid-latitude and in particular to find the depth structure of the longitudinal variation in surface temperature, which appears as a permanent feature in climatological records. The second purpose was to obtain a better description of the deep circulation in the North Pacific. The main purpose of the chemical oceanography program was to study the carbon dioxide system along the east-west transect.

INDOPAC Expedition Leg I was sponsored by the National Science Foundation.

Preceding the tabulated data is a thermograph temperature profile, an XBT vertical section and a series of curves of potential temperature versus salinity presented in figures similar to the T-S curves in *The Oceans* (1942), Figure 200, page 715.

Data from the sample bottle casts and the STD lowerings are tabulated followed by computer curves of STD temperature and salinity versus depth, with the observed sample bottle data plotted for comparison.

In addition to the data contained in this report, the following observations and collections were made:

1. Continuous underway surface temperature recording from a thermo-salinograph.
2. 12 KHz and 3.5 KHz echo sounder bottom profiling.
3. Magnetic profiling.
4. Gravity profiling.
5. An Isaacs-Kidd midwater trawl, a 1 meter 505 micron mesh open net oblique tow, and a neuston tow were made over the Japan Trench.
6. 14 surface plankton tows were made off the bow of the vessel to obtain uncontaminated samples for trace element analysis.
7. Water samples from some stations were collected to be used in later analysis ashore for density, partial pressure of carbon dioxide, lead 210, methane and trace metals.

The stations near odd numbered degrees of longitude consisted of a single twenty bottle cast using 5-liter Niskin bottles on the STD wire from the surface to 1200 meters for temperature, salinity and oxygen.

In general, the stations near even numbered degrees of longitude consisted of two casts (upper and lower) on the STD wire. Twenty 5-liter Niskin bottles were used on each cast. The lower cast went near the bottom with the aid of a pinger or to a maximum depth of 6000 meters (the STD limit) where bottom depths were greater than 6000 meters. 30-liter Niskin bottles were substituted on occasion to obtain sufficient water for the partial pressure of carbon dioxide and lead 210 analyses. No samples were obtained below 1500 meters between 140°W and 162°W because of winch problems. (Note: Deep casts were obtained in the area on Leg XVI of this expedition.) Temperature, salinity, oxygen, phosphate, silicate, nitrate and nitrite were determined for all levels. Chlorophyll, phaeophytin, alkalinity, total carbon dioxide and calcium were determined for some levels. Primary productivity data were obtained at selected stations.

The upper cast salinities were determined using a Bissett Berman (now Plessey Environmental Systems), Model 6220 inductive salinometer. Salinities

for the deep casts were determined using a University of Washington conductive salinometer (Univ. of Wash., 1960).

The University of Washington salinometer malfunctioned during the cruise resulting in salinity offset errors of .04 to .30 ppt. The deep salinities have been corrected on the basis of T-S curve overlaps between the upper and lower casts. Portions of nearby GEOSECS Expedition stations were also considered in correcting the deeper salinities. Although the reported salinities were less reliable than normal, they are tabulated to .001 ppt and appear to be correct within .005 to .01 ppt from comparison with salinities from previous expeditions. Stations corrected were: 7, 9, 11, 13, 43, 45, 47, 49, 51, 63, 65, 66, 93 and 95.

Vertical sections were considered in data evaluation as well as the method described by Klein (1973).

Alkalinity and total carbon dioxide were determined using the method of Edmond (1970).

Calcium was determined using the method of Tsunogai *et al.* (1968) adopted for microanalysis (1 ml samples were used instead of 20 ml).

Positions for alkalinity, total carbon dioxide and calcium are for deep cast messenger times.

Thermograph

A continuous thermograph record was obtained between 122°W and 141°E except for a few gaps where the clock stopped. The thermograph temperatures were read at 15 minute intervals which converts to about a 5 kilometer spacing of data points. No adjustments have been made to these temperature data.

PERSONNEL

Ship's Captain: Arsenault, Albert RV THOMAS WASHINGTON

Personnel Participating in the Collection of Data:

Kenyon, Kern E. Dr.	Chief Scientist, Research Oceanographer, SIO
Bos, David L.	Staff Research Associate, SIO
Coats, Douglas A.	Graduate Student, SIO
Conway, Carol B.	Principal Engineering Aid, SIO
Costello, James P.	Staff Research Associate, SIO
Drummond, David T.	Research Technician, MIT
Fleck, Paul A.	Laboratory Assistant, SIO
Gieskes, Joris M. Dr.	Associate Professor, SIO
Henry, Arthur J.	Programmer, SIO
Hester, Arthur W.	Staff Research Associate, SIO
Kaye, H. Ross	Electronics Technician, SIO
Lindsey, Charles W.	Staff Volunteer, SIO
Lingle, Donald E.	Staff Research Associate, SIO
Muus, David A.	Staff Research Associate, SIO
Parke, Michael E.	Graduate Student, SIO
Patla, Susan M.	Marine Technician, SIO
Schechtman, Nathan D.	Marine Technician, Queens College, N.Y.
Shiller, Alan M.	Graduate Student, SIO
Singleton, James R.	Electronics Technician, SIO
Wells, James A.	Marine Technician, SIO
Wilson, Robert C.	Resident Marine Technician, SIO

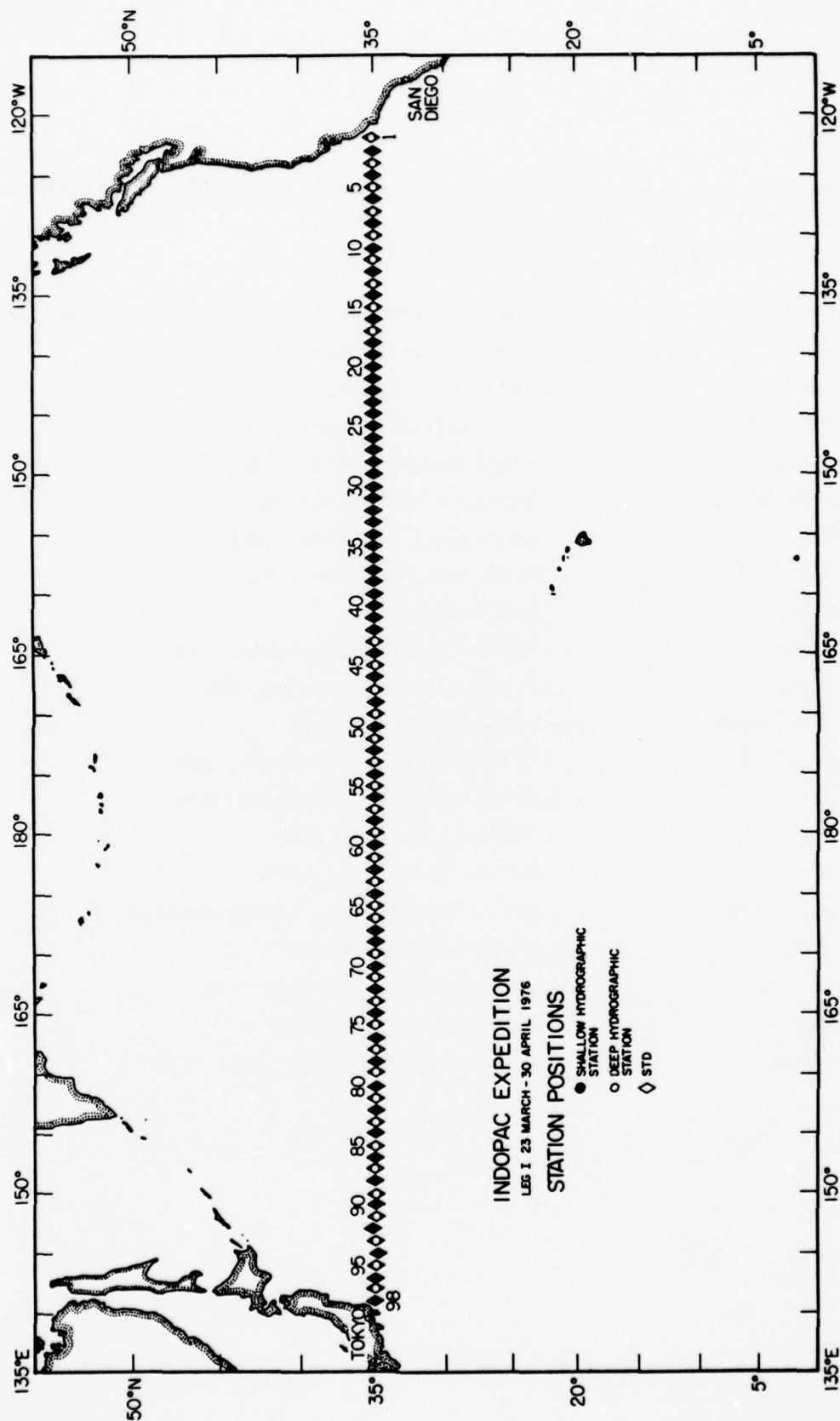


FIGURE 2

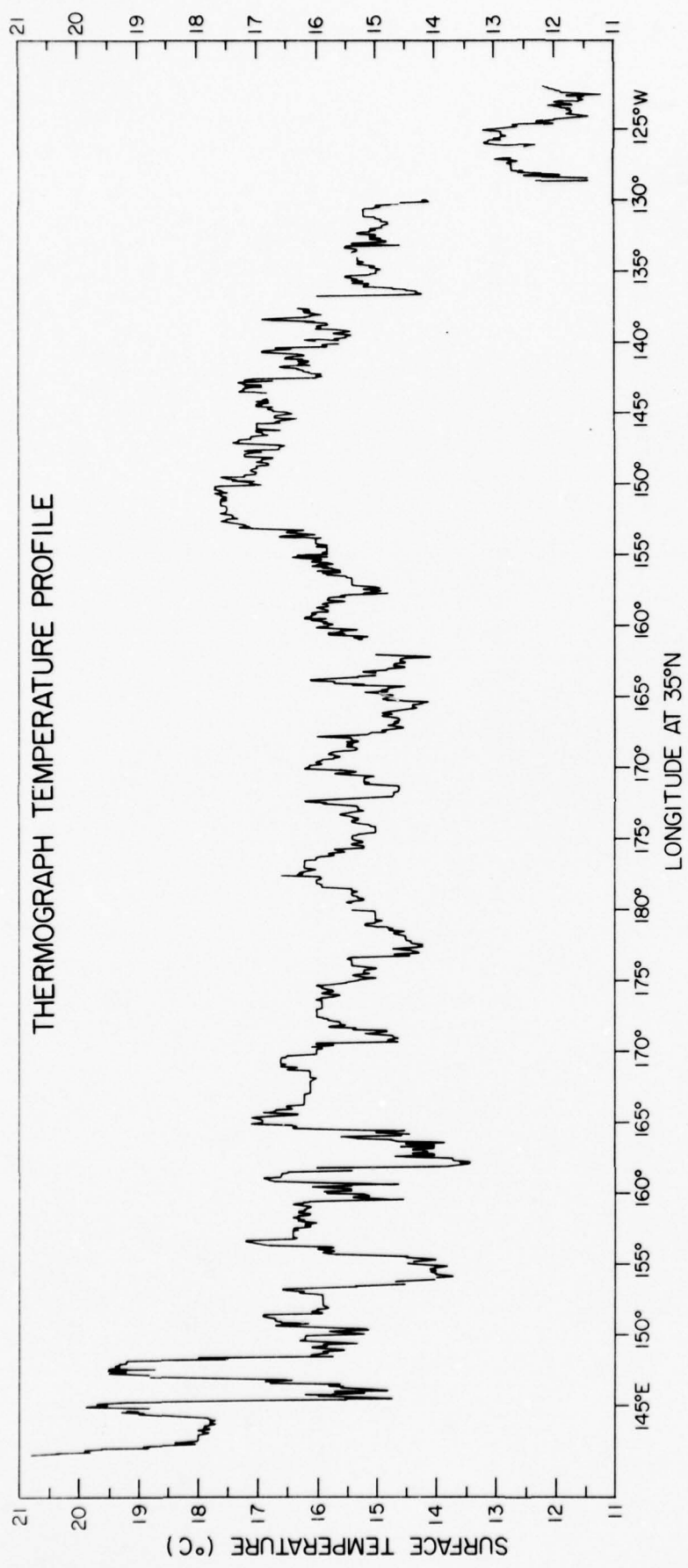


Figure 3

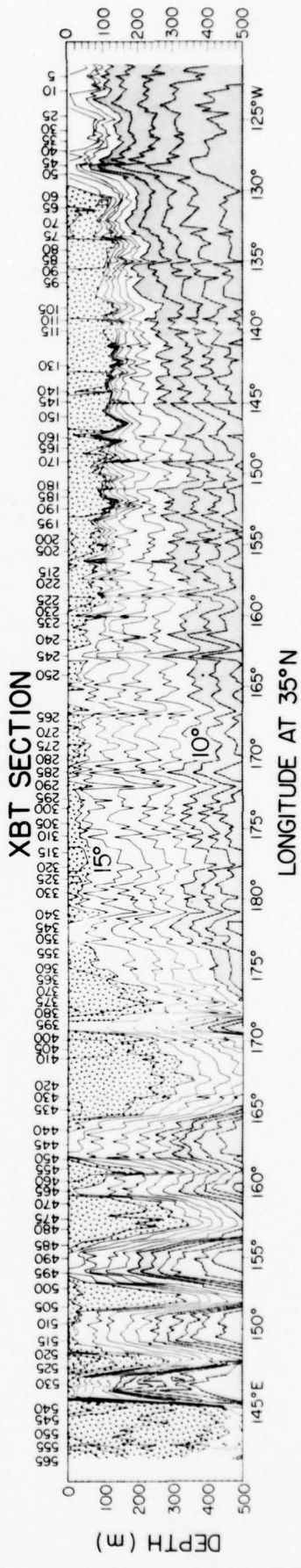


Figure 4

INDOPAC LEG I
141E TO 161E

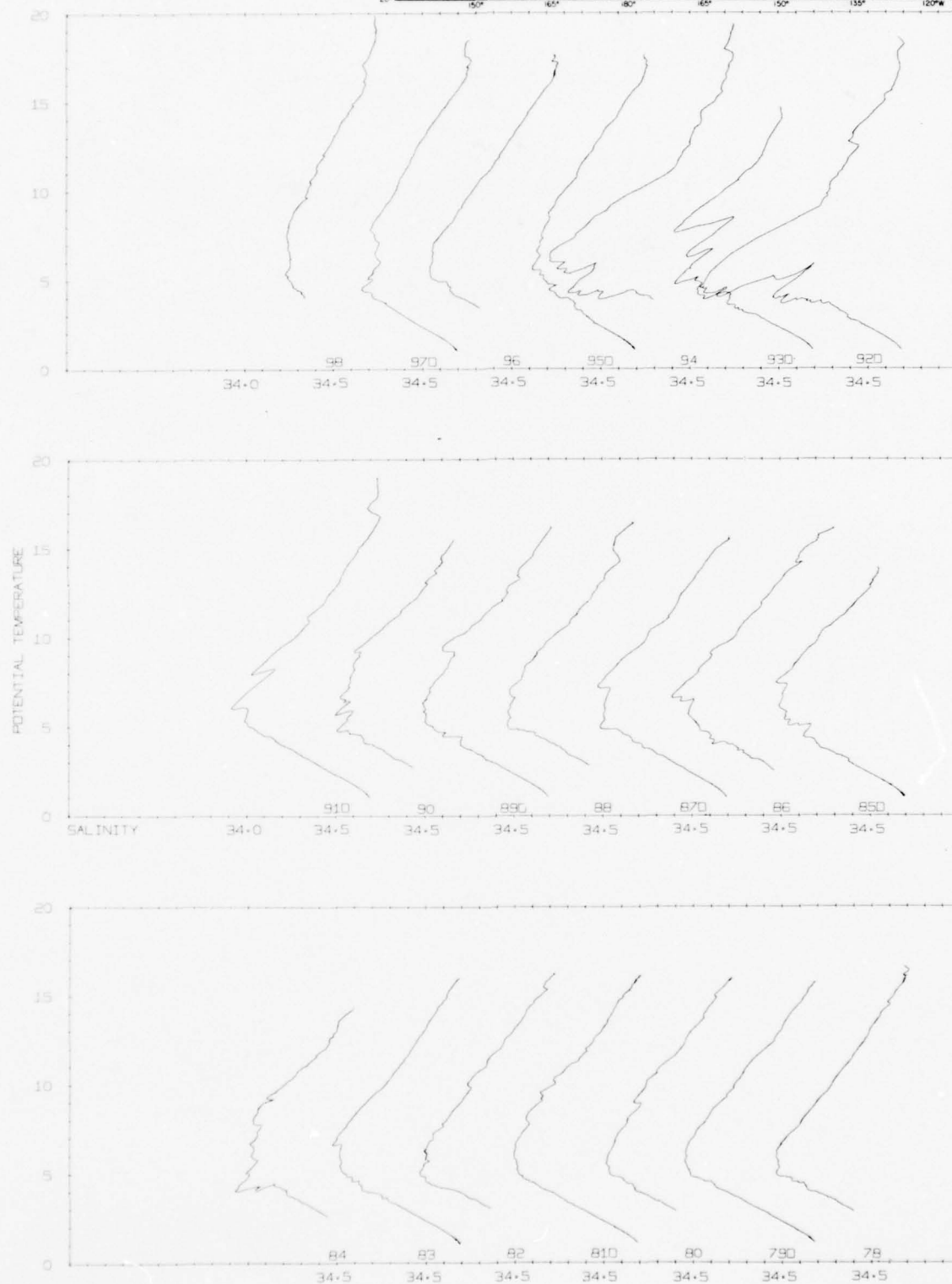
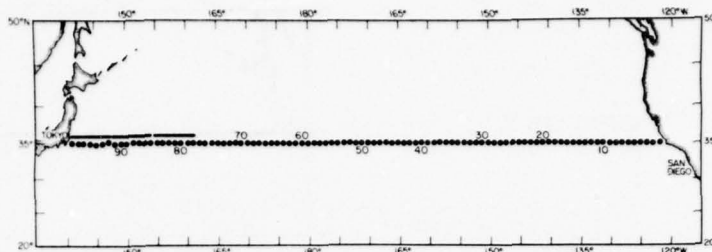
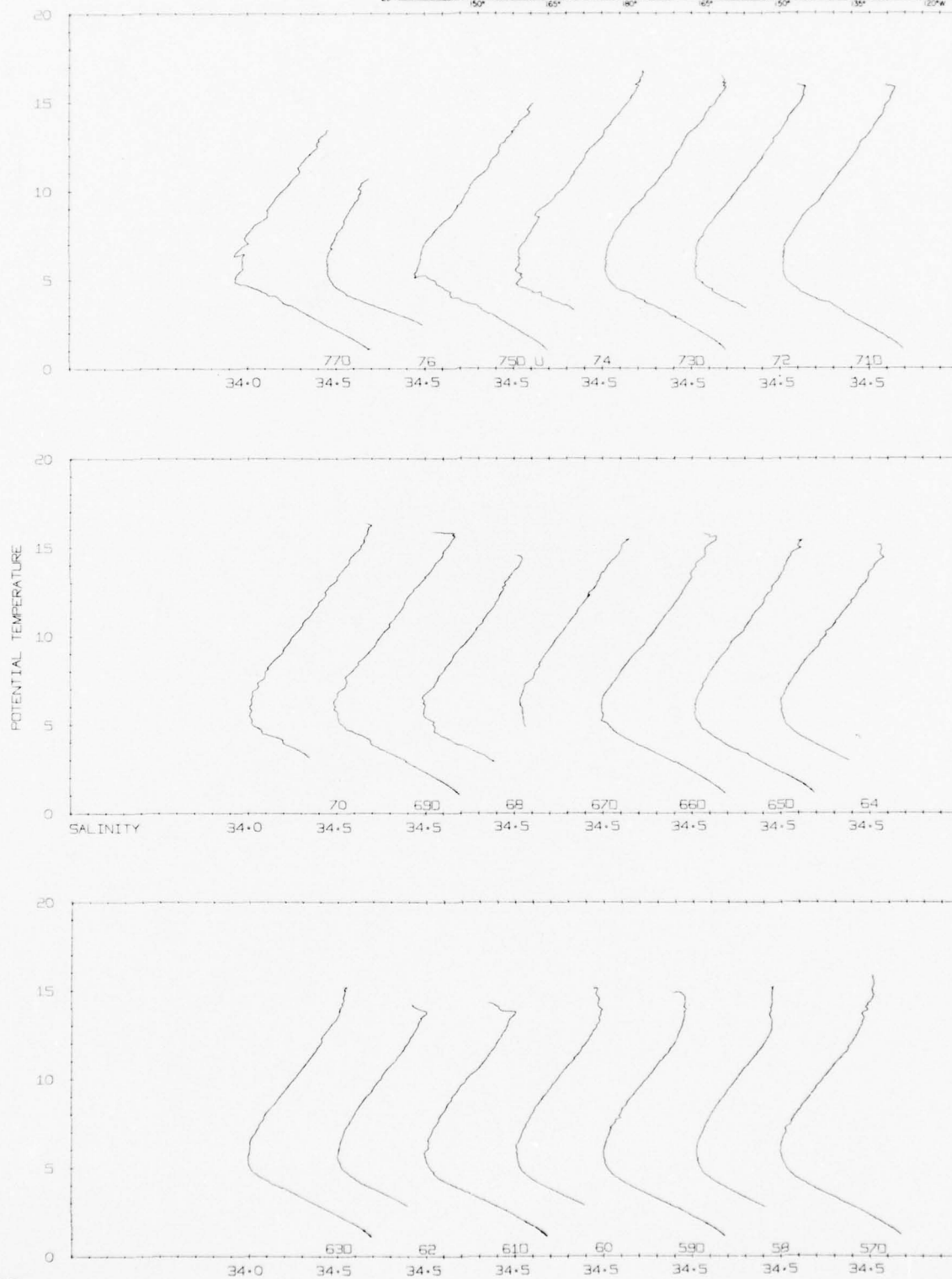
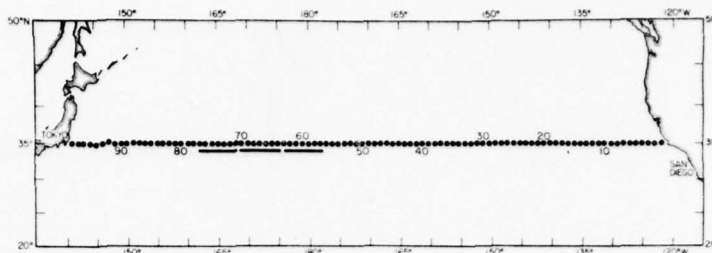


FIGURE 5a

INDOPAC LEG I
162E TO 178W



INDOPAC LEG I
177W TO 157W

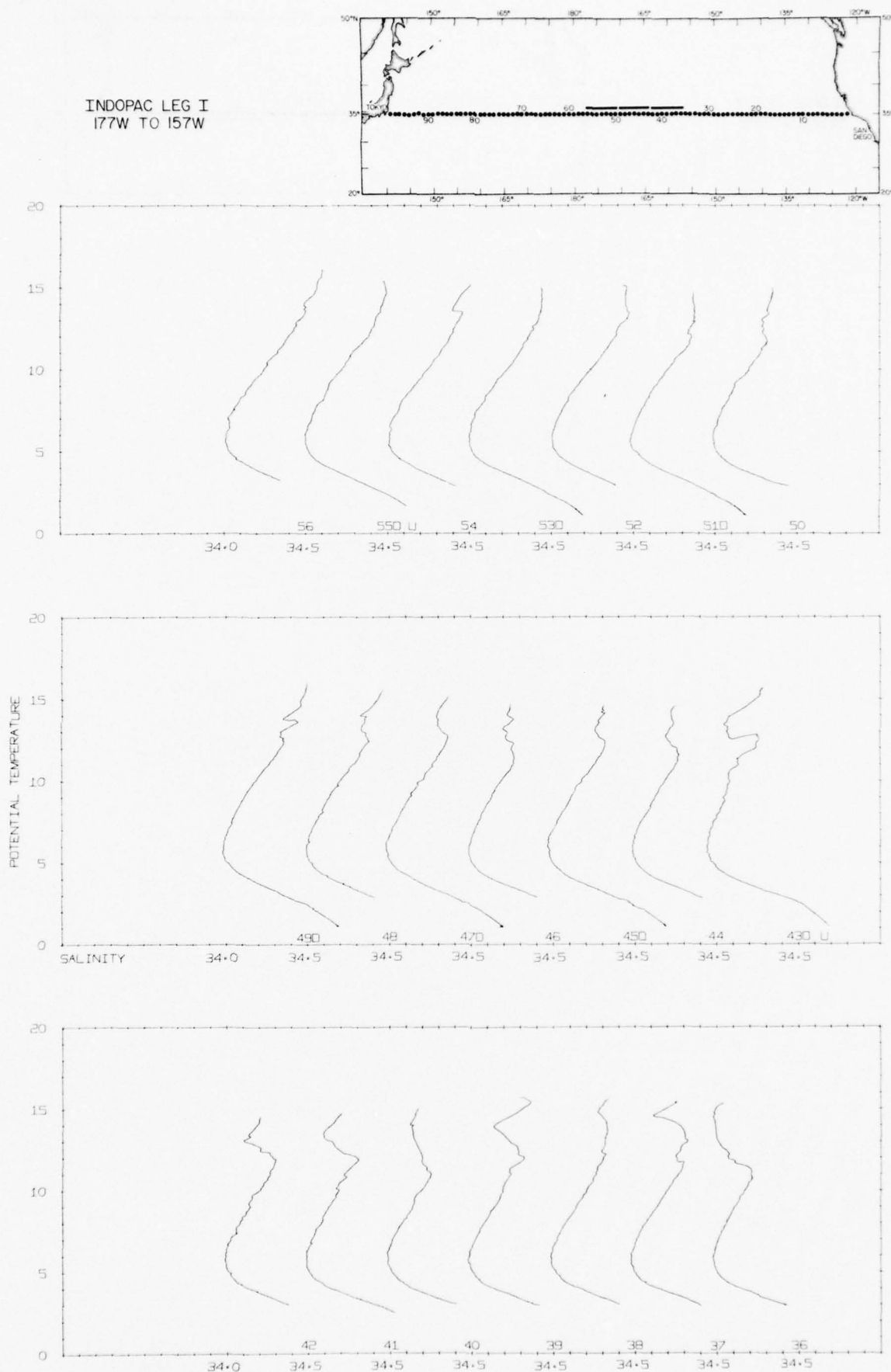


FIGURE 5c

INDOPAC LEG I
156W TO 136W

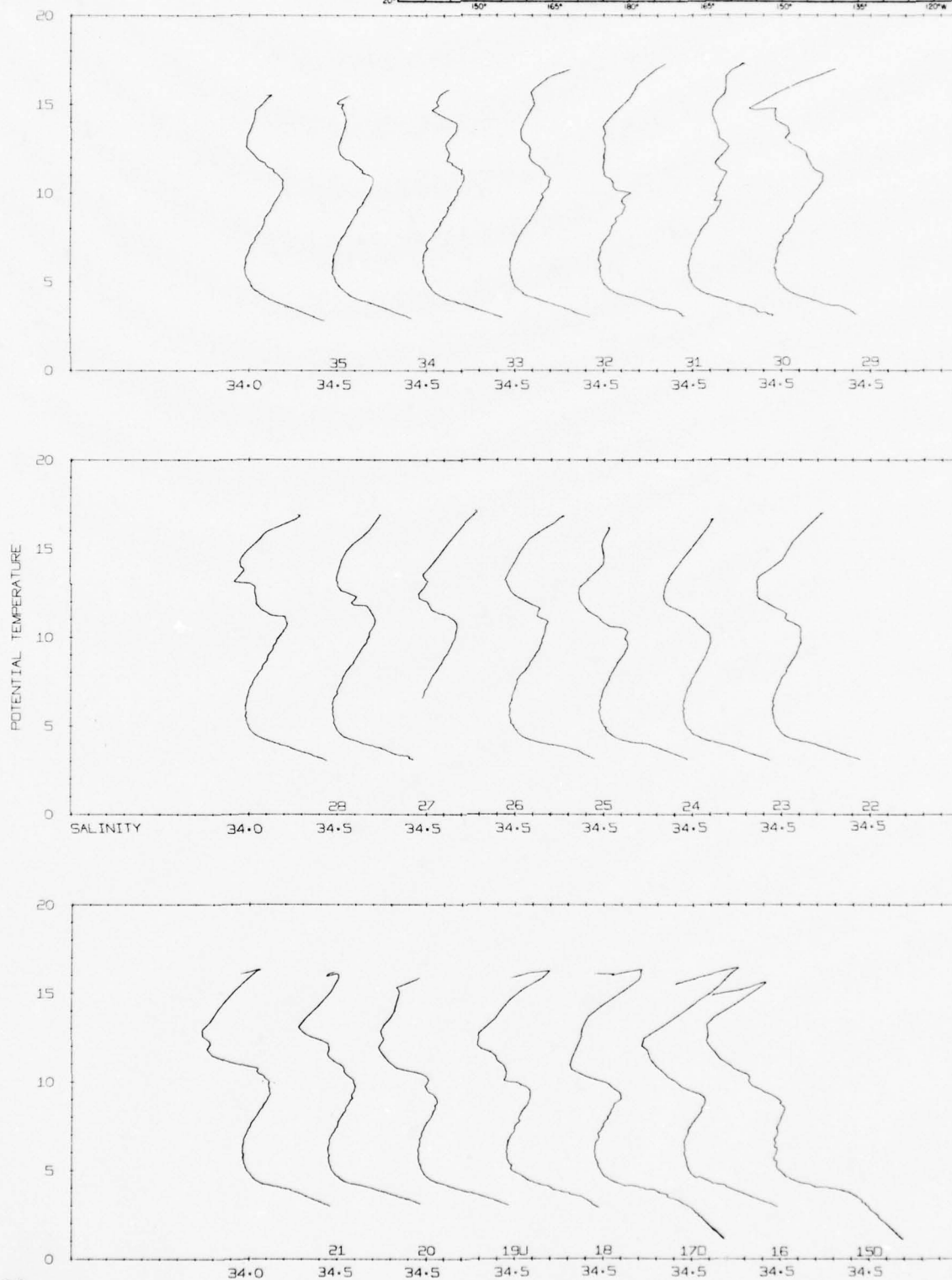
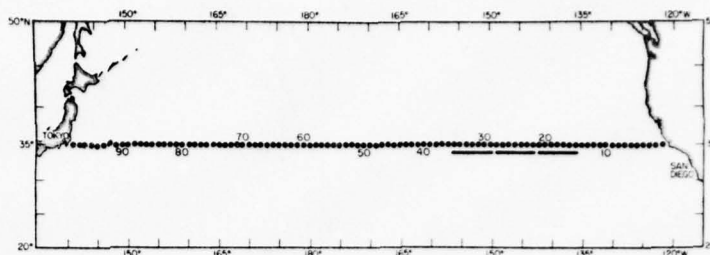


FIGURE 5d

INDOPAC LEG I
135W TO 122W

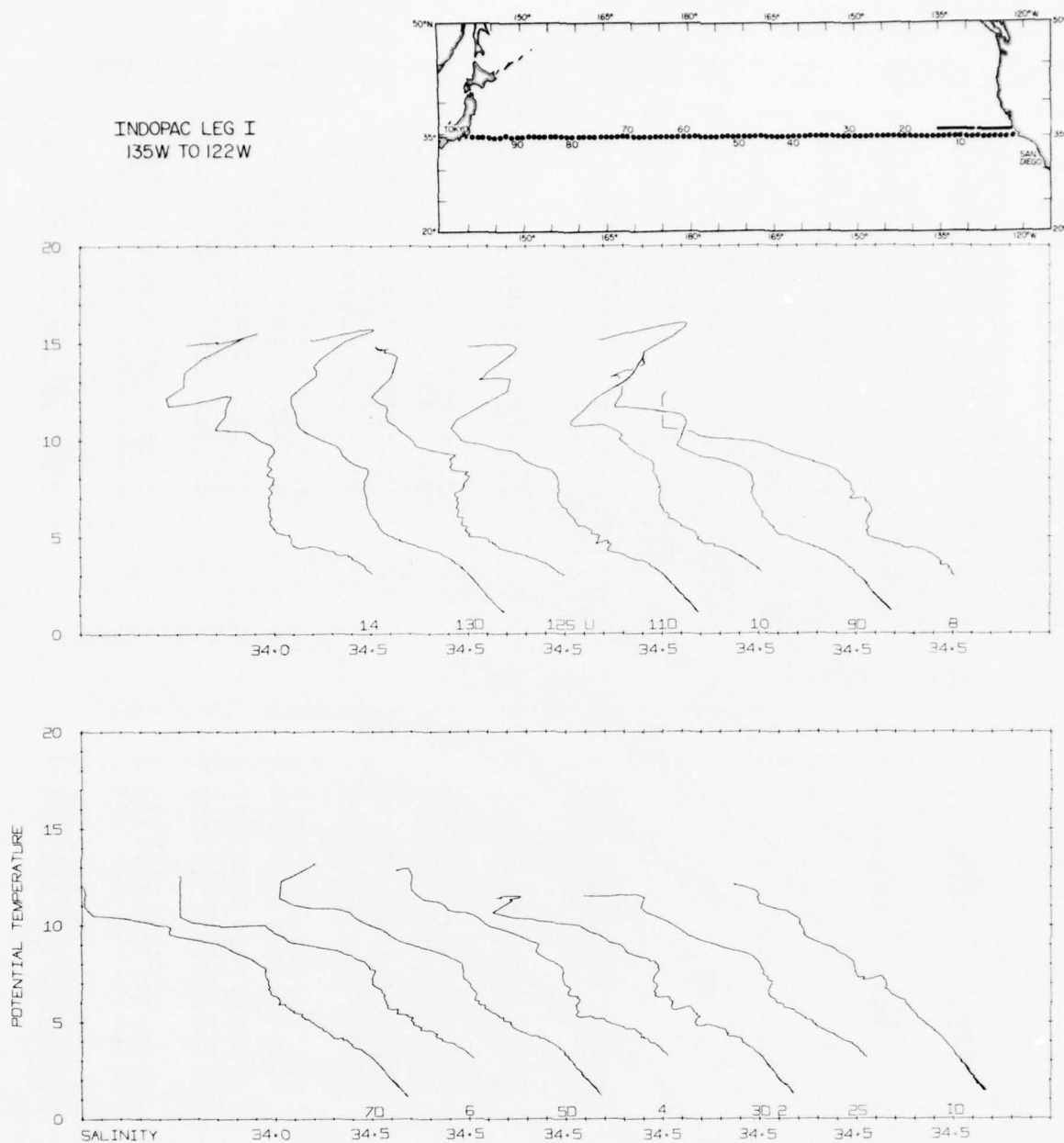


FIGURE 5e

RV THOMAS WASHINGTON										INDOPAC LEG 1						
LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES							
35 03.5N	121 50.2W	3/25/76	230A 0246	GMT	2920M	34U	26KT	0	340 12 6							
Z	T	S	02	FO4	SI03	NO2	NO3	DT	Z	T	S	02	SIGT	DT	DD	
4	12.11	33.418	6.25	0.33	7.3	0.13	2.6	262.3	0	12.11	33.418	6.25	25.362	262.3	0.000	
10	12.11	33.418	6.27	0.34	7.2	0.13	2.7	262.3	10	12.11	33.418	6.27	25.362	262.3	0.026	
20	12.11	33.422	6.40	0.37	7.2	0.22	2.6	262.0	20	12.11	33.422	6.40	25.365	262.0	0.052	
31	12.09	33.427	6.20	0.47	7.2	0.27	2.7	261.3	30	12.09	33.428	6.23	25.372	261.4	0.079	
52	11.14	33.536	5.61	0.67	11.5	0.43	8.1	236.6	50	11.27	33.527	5.67	25.600	239.7	0.129	
62	10.39	33.547	4.53	1.06	13.9	0.18	13.7	223.2	75	9.92	33.640	4.25	25.924	208.9	0.185	
78	9.86	33.664	4.16	1.32	19.4	0.27	18.3	206.0	100	9.34	33.779	3.55	26.129	189.4	0.236	
93	9.48	33.747	3.72	1.60	23.9	0.29	21.5	193.9	125	8.76	33.696	3.09	26.314	171.8	0.281	
103	9.28	33.790	3.49	1.64	24.9	0.36	22.7	187.6	150	8.29	33.983	3.00	26.453	158.7	0.323	
128	8.69	33.911	3.05	1.87	31.4	0.00	26.0	169.7	200	7.70	34.024	2.60	26.573	147.2	0.401	
154	8.23	33.991	2.99	1.97	36.7	0.00	28.0	157.1	250	7.60	34.123	1.82	26.664	138.6	0.475	
204	7.67	34.024	2.55	2.04	44.0	0.00	30.3	146.6	300	7.27	34.161	1.41	26.742	131.2	0.544	
254	7.60	34.130	1.76	2.34	50.8	0.00	32.5	137.9	400	6.33	34.209	0.82	26.907	115.6	0.673	
305	7.22	34.161	1.38	2.42	57.2	0.00	34.8	130.5	500	5.87	34.287	0.53	27.027	104.2	0.789	
405	6.29	34.211	0.80	2.66	72.5	0.00	38.9	114.8	600	5.45	34.325	0.41	27.109	96.4	0.896	
503	5.86	34.288	0.52	2.90	83.6	0.00	40.5	103.9	700	5.04	34.369	0.40	27.193	88.4	0.996	
547A	5.65	34.303	0.620	3.13	86.9	0.00	41.1	100.3	800	4.65	34.405	0.54	27.266	81.5	1.089	
602	5.44	34.325	0.41	2.97	92.5	0.00	42.1	96.2	1000	3.99	34.472	0.58	27.390	69.7	1.258	
700	5.04	34.369	0.40	3.04	101.0	0.01	43.2	88.4	1200	3.46	34.505	0.75	27.469	62.2	1.408	
729A	4.82	34.351	0.38	3.23	104.6	0.00	43.1	84.4	1500	2.86	34.554	1.09	27.564	53.2	1.610	
800	4.65	34.405	0.54	3.08	109.4	0.01	43.7	81.5	1750	2.38	34.599	1.44	27.640	46.0	1.757	
911A	4.27	34.446	0.50	3.32	117.8	0.00	43.9	74.5	2000	2.08	34.626	1.86	27.687	41.6	1.890	
1093A	3.72	34.494	0.70	3.21	130.0	0.00	43.9	65.5								
1276A	3.29	34.511	0.80	3.17	140.4	0.00	43.4	60.3								
1459A	2.94	34.548	1.06	3.16	150.2	0.00	43.3	54.4								
1643A	2.58	34.576	1.22	3.14	160.0	0.03	42.6	49.3								
1827A	2.26	34.612 E	1.61	3.03	169.3	0.00	41.9	44.0								
2011A	2.07	34.625	1.87	2.99	172.8	0.01	41.1	41.5								
2197A	1.889	34.640	2.16	2.91	175.8	0.07	40.3	39.1								
2384A		34.645	2.80	176.0	0.00		39.4									

RV THOMAS WASHINGTON										INDOPAC LEG 1						
LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES							
34 58. N	123 05.1W	3/26/76	1115	GMT	3287M	36U	26KT									
Z	T	S	02	PO4	SI03	NO2	NO3	DT	Z	T	S	02	SIGT	DT	DD	
4	11.54	33.044	6.31					279.8	0	11.54	33.044	6.31	25.179	279.8	0.000	
15	11.53	33.045	6.31					279.5	10	11.53	33.047	6.31	25.180	279.7	0.028	
24	11.52	33.055	6.32					278.6	20	11.52	33.053	6.32	25.187	279.0	0.056	
35	11.56	33.083	6.32					277.3	30	11.54	33.069	6.32	25.197	278.1	0.084	
55	11.55	33.216	6.30					267.3	50	11.55	33.178	6.31	25.278	270.3	0.139	
80	11.55	33.416	5.89					252.5	75	11.55	33.368	6.00	25.427	256.2	0.205	
105	10.20	33.513	5.14					222.6	100	10.50	33.496	5.31	25.713	229.0	0.266	
129	9.40	33.649	4.17					199.9	125	9.51	33.626	4.33	25.982	203.4	0.321	
159	8.72	33.859	3.17					174.0	150	8.90	33.800	3.43	26.216	181.1	0.369	
209	8.01	34.001	2.73					153.2	200	8.11	33.990	2.75	26.486	155.5	0.455	
259	7.51	34.031	2.30					144.1	250	7.60	34.031	2.38	26.593	145.3	0.532	
309	6.93	34.059	1.78					134.3	300	7.04	34.055	1.88	26.691	136.1	0.605	
408	5.78	34.127	0.44					115.0	400	5.86	34.122	0.53	26.898	116.4	0.736	
508	5.30	34.230	0.26					101.8	500	5.33	34.223	0.27	27.043	102.7	0.851	
608	4.77	34.298	0.28					90.8	600	4.81	34.294	0.28	27.159	91.6	0.954	
707	4.46	34.359	0.19					83.0	700	4.48	34.356	0.20	27.245	83.5	1.049	
808	4.20	34.411	0.27					76.5	800	4.22	34.407	0.26	27.314	76.9	1.136	
906	3.99	34.457	0.19					70.9	1000	3.79	34.486	0.48	27.421	66.8	1.296	
1007	3.77	34.487	0.51					66.5	1200	3.26	34.535	0.74	27.513	58.1	1.439	
1200	3.255	34.535	0.74					58.1								

E) AN ERROR OF 1 OHM (0.056 PPT) IN CONDUCTIVITY HAS BEEN ASSUMED.

10						INDOPAC LEG I						25					
LATITUDE		LONGITUDE		MO/DAY/YR		START TIME		LATITUDE		LONGITUDE		MO/DAY/YR		START TIME			
35 03.5N		121 56.2W		03/25/76		1949 GMT		34 58. N		123 05.1W		03/26/76		0943 GMT			
Z	T	S	SIGMA T	DT	DD	Z	T	S	SIGMA T	DT	DD	Z	T	S	SIGMA T	DT	DD
0	12.12	33.38	25.331	265.3	0.000	0	11.51	33.09	25.220	275.9	0.000	0	11.51	33.09	25.220	275.9	0.000
10	12.11	33.38	25.333	265.1	0.027	10	11.52	33.09	25.218	276.0	0.028	10	11.52	33.09	25.218	276.0	0.028
20	12.10	33.37	25.327	265.7	0.053	20	11.53	33.10	25.224	275.5	0.055	20	11.53	33.10	25.224	275.5	0.055
30	12.10	33.38	25.335	264.9	0.080	30	11.52	33.11	25.233	274.6	0.083	30	11.52	33.11	25.233	274.6	0.083
40	12.09	33.38	25.336	264.6	0.106	40	11.51	33.14	25.259	272.2	0.110	40	11.51	33.14	25.259	272.2	0.110
50	11.87	33.46	25.440	254.9	0.132	50	11.51	33.15	25.266	271.4	0.137	50	11.51	33.15	25.266	271.4	0.137
75	10.78	33.62	25.762	224.3	0.193	75	11.54	33.26	25.346	263.9	0.205	75	11.54	33.26	25.346	263.9	0.205
100	9.99	33.71	25.969	204.7	0.247	100	10.59	33.43	25.648	235.1	0.268	100	10.59	33.43	25.648	235.1	0.268
125	9.10	33.80	26.185	184.1	0.296	125	9.63	33.61	25.951	206.4	0.323	125	9.63	33.61	25.951	206.4	0.323
150	8.61	33.91	26.348	168.6	0.341	150	9.08	33.76	26.157	186.8	0.373	150	9.08	33.76	26.157	186.8	0.373
175	8.24	33.97	26.451	158.8	0.382	175	8.66	33.89	26.324	170.9	0.419	175	8.66	33.89	26.324	170.9	0.419
200	7.90	33.99	26.518	152.5	0.422	200	8.31	33.98	26.448	159.1	0.461	200	8.31	33.98	26.448	159.1	0.461
225	7.42	34.00	26.595	145.2	0.460	225	7.96	34.00	26.517	152.6	0.501	225	7.96	34.00	26.517	152.6	0.501
250	7.24	34.03	26.644	140.5	0.497	250	7.77	34.01	26.552	149.2	0.539	250	7.77	34.01	26.552	149.2	0.539
275	7.36	34.12	26.695	135.7	0.532	275	7.44	34.02	26.608	143.9	0.577	275	7.44	34.02	26.608	143.9	0.577
300	7.18	34.14	26.739	131.5	0.567	300	7.16	34.06	26.679	137.2	0.613	300	7.16	34.06	26.679	137.2	0.613
350	6.69	34.15	26.814	124.4	0.633	350	6.39	34.05	26.775	128.1	0.682	350	6.39	34.05	26.775	128.1	0.682
400	6.42	34.18	26.873	118.6	0.697	400	5.98	34.11	26.875	118.6	0.746	400	5.98	34.11	26.875	118.6	0.746
450	6.16	34.24	26.954	111.1	0.757	450	5.69	34.16	26.950	111.5	0.806	450	5.69	34.16	26.950	111.5	0.806
500	5.92	34.26	27.000	106.7	0.815	500	5.38	34.22	27.035	103.4	0.863	500	5.38	34.22	27.035	103.4	0.863
550	5.62	34.29	27.061	100.9	0.870	550	5.14	34.25	27.087	98.5	0.917	550	5.14	34.25	27.087	98.5	0.917
600	5.29	34.32	27.125	94.9	0.922	600	4.92	34.29	27.144	93.1	0.968	600	4.92	34.29	27.144	93.1	0.968
650	5.09	34.34	27.164	91.2	0.973	650	4.67	34.32	27.196	88.1	1.016	650	4.67	34.32	27.196	88.1	1.016
700	4.90	34.36	27.202	87.6	1.021	700	4.50	34.36	27.247	83.4	1.063	700	4.50	34.36	27.247	83.4	1.063
750	4.73	34.39	27.245	83.5	1.068	750	4.42	34.38	27.271	81.0	1.107	750	4.42	34.38	27.271	81.0	1.107
800	4.57	34.41	27.278	80.3	1.113	800	4.29	34.40	27.301	78.2	1.151	800	4.29	34.40	27.301	78.2	1.151
850	4.43	34.42	27.302	78.1	1.157	850	4.11	34.43	27.344	74.1	1.193	850	4.11	34.43	27.344	74.1	1.193
900	4.27	34.44	27.335	75.0	1.199	900	4.04	34.45	27.367	71.9	1.234	900	4.04	34.45	27.367	71.9	1.234
950	4.11	34.45	27.360	72.6	1.240	950	3.96	34.48	27.399	68.9	1.273	950	3.96	34.48	27.399	68.9	1.273
1000	3.95	34.47	27.392	69.5	1.280	1000	3.85	34.49	27.418	67.1	1.311	1000	3.85	34.49	27.418	67.1	1.311
1100	3.73	34.49	27.430	65.9	1.357	1100	3.59	34.51	27.460	63.1	1.385	1100	3.59	34.51	27.460	63.1	1.385
1200	3.50	34.51	27.469	62.3	1.431	1200	3.31	34.54	27.511	58.2	1.455	1200	3.31	34.54	27.511	58.2	1.455
1300	3.27	34.53	27.507	58.6	1.501	1227	3.24	34.55	27.526	56.9	1.473						
1400	3.07	34.54	27.534	56.1	1.568												
1500	2.90	34.56	27.565	53.1	1.632												
1600	2.686	34.573	27.595	50.4	1.694												
1700	2.509	34.587	27.621	47.8	1.752												
1800	2.322	34.601	27.648	45.3	1.808												
1900	2.180	34.616	27.672	43.1	1.862												
2000	2.099	34.622	27.683	42.0	1.913												
2100	2.019	34.632	27.697	40.6	1.964												
2200	1.929	34.634	27.706	39.8	2.014												
2300	1.859	34.648	27.723	38.2	2.062												
2400	1.799	34.656	27.734	37.2	2.109												
2500	1.757	34.656	27.737	36.9	2.156												
2600	1.724	34.663	27.745	36.1	2.202												
2700	1.682	34.664	27.749	35.7	2.247												
2800	1.654	34.670	27.756	35.1	2.293												
2834	1.648	34.674	27.760	34.7	2.308												

RV THOMAS WASHINGTON

INDOPAC LEG I

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LATITUDE		LONGITUDE		MO/DAY/YR		MESSENGER		TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES		
35 00. N		124 00. W		3/26/76		2150 0245		GMT	3451M	340	23KT	1	320 7 7		
Z	T	S	Q2	P04	SIG3	N02	N03	DT	Z	T	S	Q2	SIGT	DT	DD
1A	11.51	33.205	6.40	0.58	5.5	0.03	2.7	267.4	0	11.51	33.205	6.40	25.309	267.4	0.000
2	11.52	33.205	6.33	0.56	6.1	0.03	2.7	267.6	10	11.51	33.206	6.36	25.308	267.5	0.027
11	11.51	33.204	6.36	0.58	6.0	0.03	2.6	267.5	20	11.52	33.218	6.37	25.316	266.7	0.053
22	11.52	33.221	6.37	0.61	6.2	0.03	2.7	266.4	30	11.57	33.275	6.36	25.350	263.5	0.080
32	11.58	33.285	6.36	0.63	6.6	0.03	2.8	262.7	50	11.51	33.302	6.30	25.382	260.5	0.133
42	11.54	33.293	6.33	0.63	6.9	0.03	3.1	261.4	75	10.42	33.259	5.98	25.543	245.2	0.196
51	11.5	33.301	6.30	0.62	6.9	0.03	3.3	260.3	100	10.08	33.558	5.40	25.833	217.5	0.254
61	11.17	33.272	6.23	0.65	7.3	0.13	3.9	256.6	125	9.49	33.721	4.13	26.059	196.0	0.307
77	10.32	33.262	5.94	0.87	7.4	0.14	7.4	243.1	150	8.06	33.837	3.46	26.251	177.9	0.354
102	10.08	33.586	5.34	1.22	13.3	0.00	13.4	215.3	200	7.93	33.965	3.27	26.508	153.4	0.438
127	9.43	33.727	4.03	1.25	21.9	0.00	20.9	194.6	250	7.16	33.989	3.03	26.621	142.6	0.514
153	8.79	33.848	3.42	1.96	27.9	0.00	24.4	175.9	300	6.45	33.995	2.49	26.722	133.1	0.585
203	7.88	33.993	3.26	2.13	43.7	0.00	29.3	152.0	400	5.79	34.113	1.15	26.900	116.2	0.714
206A	8.05	33.984	2.83	2.11	36.7	0.00	28.1	155.1	500	5.37	34.189	0.72	27.011	105.7	0.831
253	7.10	33.988	3.04	2.29	43.9	0.00	29.4	141.8	600	4.87	34.284	0.34	27.144	93.0	0.937
303	6.42	33.995	2.44	2.51	55.2	0.00	33.4	132.6	700	4.63	34.364	0.35	27.235	84.4	1.032
402	5.78	34.115	1.12	3.02	73.7	0.00	39.8	115.9	800	4.90	34.404	0.34	27.303	78.0	1.121
405A		34.09	1.20	2.86	73.2	0.00	39.1		1000	3.69	34.479	0.56	27.425	66.5	1.281
503	5.36	34.150	0.70	3.37	65.2	0.00	41.9	105.4	1200	3.50	34.517	0.80	27.493	55.9	1.425
602A	4.86	34.285	0.33	3.23	100.9	0.00	43.2	92.8	1500	2.72	34.566	1.14	27.586	51.2	1.619
603	4.95	34.282	0.41	3.40	98.9	0.00	43.4	94.0	1750	2.53	34.593	1.41	27.640	46.1	1.763
702	4.62	34.365	0.35	3.42	107.9	0.00	44.0	84.2	2000	2.05	34.618	1.72	27.683	42.0	1.896
797A	4.29	34.389	0.32	3.33	116.7	0.00	44.1	79.0	2250	1.88	34.642	2.13	27.715	38.9	2.020
802	4.30	34.414	0.36	3.47	116.5	0.00	44.8	77.2	2500	1.77	34.657	2.33	27.733	37.3	2.139
993A	3.76	34.458	0.50	3.32	129.5	0.00	44.4	68.6	2750	1.67	34.664	2.57	27.749	35.7	2.255
1003	3.66	34.485	0.58	3.48	131.2	0.00	45.2	65.6	3000	1.63	34.668	2.69	27.756	35.1	2.368
1191A	3.32	34.515	0.79	3.25	140.7	0.00	44.0	60.2	3250	1.56	34.678	2.82	27.767	34.1	2.482
1398B	2.89	34.550	1.02	3.16	150.5		44.0	53.8	3500	1.53	34.677		27.770	33.8	2.594
1598B	2.57	34.579	1.25	3.13	158.9		43.8	48.9							
1793B	2.27	34.595	1.45	3.07	167.6		43.1	45.3							
1990B	2.06	34.615	1.70	3.00	175.8		42.4	42.2							
2187B	1.92	34.639	2.06	2.95	174.9		41.4	39.4							
2384B	1.82	34.645	2.24	2.86	176.2		40.9	38.2							
2581B	1.74	34.657	2.40	2.80	176.7		40.3	36.7							
2776B	1.66	34.664	2.59	2.86	177.7		39.6	35.6							
2972B	1.63	34.666	2.67	2.75	178.7		39.2	35.2							
3169B	1.60	34.673	2.81	2.76	179.2		38.8	34.5							
3318B	1.56	34.676	2.85	2.71	180.7		38.6	34.0							
3368B	1.55	34.674	2.91	2.70	180.5		38.7	34.1							

RV THOMAS WASHINGTON

INDOPAC LEG I

4

LATITUDE		LONGITUDE		MO/DAY/YR		MESSENGER		TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES		
34 59.3N		124 59.6W		3/27/76		0950		GMT	4095M	340	23KT	1	320 7 7		
Z	T	S	Q2	P04	SIG3	N02	N03	DT	Z	T	S	Q2	SIGT	DT	DD
0	12.82	33.116	5.890					297.5	0	12.82	33.116	5.89	24.992	297.5	0.000
10	12.84	33.119	6.20					297.7	10	12.84	33.119	6.20	24.990	297.7	0.030
19	12.85	33.122	6.20					297.7	20	12.85	33.124	6.20	24.991	297.7	0.050
30	12.85	33.120	6.20					297.7	30	12.85	33.120	6.20	24.989	297.8	0.089
40	12.85	33.129	6.21					297.2	50	12.85	33.134	6.21	24.998	297.0	0.149
74	12.86	33.187	6.12					293.1	75	12.81	33.191	6.11	25.051	292.0	0.223
98	11.46	33.282	5.80					260.8	100	11.39	33.303	5.75	25.404	258.3	0.292
122	10.83	33.501	5.15					233.9	125	10.74	33.516	5.07	25.686	231.5	0.354
147	10.06	33.585	4.55					215.4	150	9.97	33.602	4.47	25.887	212.5	0.410
198	8.42	33.859	3.46					169.6	200	8.58	33.668	3.45	26.349	168.5	0.507
246	7.72	33.987	3.27					150.2	250	7.65	33.991	3.20	26.553	149.1	0.589
295	6.95	33.999	2.31					139.0	300	6.89	34.003	2.25	26.670	138.0	0.663
392	5.97	34.064	1.44					122.0	400	5.91	34.071	1.38	26.852	120.7	0.797
488	5.34	34.140	0.82					108.9	500	5.29	34.152	0.76	26.991	107.6	0.916
585	5.02	34.229	0.44					98.7	600	4.97	34.243	0.40	27.101	97.2	1.025
686	4.70	34.315	0.26					88.8	700	4.67	34.328	0.26	27.202	87.6	1.124
784	4.48	34.388	0.29					81.0	800	4.43	34.396	0.30	27.283	79.9	1.216
882	4.14	34.427	0.34					74.6	1000	3.82	34.472		27.407	68.1	1.380
982	3.86	34.467	0.27					68.9							

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INDOPAC LEG I

4

LATITUDE	LONGITUDE	MO/DAY/YR	START TIME	LATITUDE	LONGITUDE	MO/DAY/YR	START TIME				
35 00. N	124 00. W	03/26/76	1932 GMT	34 59.3N	124 59.8W	03/27/76	0834 GMT				
Z	T	S	SIGMA T	DT	DD	Z	T	S	SIGMA T	DT	DD
0	11.41	33.16	25.292	269.0	0.000	0	12.84	33.12	24.991	297.6	0.000
10	11.41	33.16	25.292	269.0	0.027	10	12.85	33.13	24.997	297.1	0.030
20	11.41	33.14	25.277	270.5	0.054	20	12.87	33.13	24.993	297.5	0.060
30	11.46	33.17	25.291	269.1	0.081	30	12.86	33.13	24.995	297.3	0.089
40	11.52	33.22	25.319	266.5	0.108	40	12.88	33.13	24.997	297.1	0.119
50	11.47	33.26	25.359	262.6	0.134	50	12.65	33.13	24.997	297.1	0.149
75	10.35	33.28	25.573	242.5	0.198	75	12.71	33.20	25.078	289.3	0.223
100	9.74	33.61	25.933	208.1	0.255	100	11.31	33.29	25.411	257.6	0.291
125	8.99	33.78	26.187	183.9	0.304	125	10.69	33.47	25.661	233.9	0.354
150	8.34	33.89	26.373	166.2	0.348	150	9.99	33.60	25.883	212.8	0.410
175	8.14	33.96	26.456	156.1	0.390	175	9.24	33.61	26.170	185.5	0.461
200	7.79	33.98	26.526	151.7	0.429	200	8.58	33.65	26.306	172.6	0.506
225	7.12	33.95	26.598	144.9	0.467	225	8.05	33.65	26.464	157.6	0.549
250	6.92	33.97	26.641	140.6	0.504	250	7.67	33.68	26.543	150.1	0.588
275	6.49	33.96	26.691	136.1	0.539	275	7.26	33.96	26.602	144.5	0.626
300	6.32	34.01	26.752	130.2	0.574	300	6.93	33.99	26.655	139.4	0.662
350	5.96	34.05	26.830	122.9	0.639	350	6.36	34.03	26.763	129.2	0.732
400	5.81	34.12	26.904	115.9	0.701	400	5.99	34.06	26.834	122.5	0.797
450	5.55	34.16	26.967	109.6	0.760	450	5.31	34.06	26.917	114.6	0.859
500	5.32	34.19	27.019	105.0	0.817	500	5.23	34.15	26.998	107.0	0.917
550	4.85	34.20	27.081	99.1	0.871	550	5.11	34.20	27.051	101.9	0.973
600	4.85	34.26	27.128	94.6	0.922	600	4.91	34.25	27.114	96.0	1.025
650	4.70	34.31	27.185	89.2	0.971	650	4.79	34.30	27.167	90.9	1.075
700	4.48	34.33	27.225	85.4	1.019	700	4.73	34.35	27.213	86.5	1.123
750	4.31	34.35	27.259	82.1	1.064	750	4.55	34.37	27.249	83.1	1.169
800	4.28	34.38	27.286	79.6	1.108	800	4.31	34.39	27.291	79.1	1.214
850	4.18	34.41	27.321	76.5	1.151	850	4.22	34.42	27.324	76.0	1.257
900	3.98	34.41	27.341	74.4	1.193	900	4.03	34.43	27.352	73.3	1.298
950	3.85	34.44	27.379	70.8	1.233	950	3.96	34.46	27.383	70.4	1.338
1000	3.74	34.46	27.406	66.3	1.272	1000	3.85	34.47	27.403	68.6	1.377
1100	3.50	34.49	27.453	63.0	1.347	1100	3.58	34.50	27.453	63.7	1.452
1200	3.25	34.51	27.493	60.0	1.417	1200	3.34	34.52	27.493	60.0	1.523
1300	3.08	34.53	27.525	57.0	1.485						
1400	2.88	34.54	27.551	54.5	1.550						
1500	2.73	34.56	27.580	51.7	1.612						
1600	2.574	34.548	27.585	51.3	1.672						
1700	2.419	34.586	27.628	47.2	1.731						
1800	2.293	34.592	27.643	45.8	1.787						
1900	2.145	34.607	27.667	43.5	1.840						
2000	2.050	34.617	27.683	42.0	1.892						
2100	1.971	34.627	27.697	40.6	1.942						
2200	1.919	34.636	27.709	39.6	1.992						
2300	1.870	34.644	27.719	38.6	2.040						
2400	1.818	34.650	27.726	37.6	2.088						
2500	1.787	34.653	27.732	37.3	2.135						
2600	1.736	34.658	27.740	36.6	2.182						
2700	1.702	34.662	27.746	36.0	2.229						
2800	1.671	34.665	27.749	35.7	2.274						
2900	1.643	34.668	27.753	35.5	2.319						
3000	1.621	34.669	27.758	34.9	2.363						
3100	1.603	34.671	27.761	34.7	2.410						
3200	1.585	34.673	27.763	34.4	2.455						
3300	1.570	34.676	27.767	34.0	2.500						
3400	1.553	34.677	27.769	33.8	2.545						

RV THOMAS WASHINGTON

INDOPAC LEG I

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	LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES						
	35 00.7N	126 01.8 E	3/27/76	1700	1947	GMT	5913M	320	24KT	2	290 7 10					
Z	T	S	02	P04	SIG3	002	003	DT	Z	T	S	02	SIGT	DT	DD	
1	13.19	33.202	6.17	0.36	3.8	0.00	0.2	296.2	0	13.19	33.202	6.17	24.985	298.2	0.000	
11	13.19	33.193	6.15	0.38	3.7	0.00	0.2	296.8	10	13.19	33.193	6.15	24.978	298.8	0.030	
22	13.18	33.198	6.12	0.39	3.6	0.00	0.3	298.3	20	13.18	33.199	6.13	24.983	298.4	0.060	
31	13.18	33.197	6.05	0.40	3.4	0.00	0.4	298.4	30	13.18	33.199	6.06	24.984	298.3	0.090	
80	13.18	33.196	6.08	0.42	3.1	0.00	0.6	298.4	50	13.18	33.196	6.08	24.983	298.4	0.150	
75	13.06	33.158	6.13	0.41	3.2	0.00	0.8	299.0	75	13.06	33.158	6.13	24.977	299.0	0.225	
99	11.12	33.034	6.01	0.63	6.7	0.03	4.4	273.3	100	11.09	33.047	5.99	25.260	272.1	0.296	
124	10.71	33.359	5.55	0.72	7.6	0.04	6.3	242.4	125	10.68	33.370	5.54	25.584	241.3	0.361	
140	9.97	33.543	5.30	1.18	14.5	0.00	13.3	216.7	150	9.90	33.562	5.23	25.866	214.4	0.419	
197	6.55	33.886	3.58	1.88	31.5	0.00	24.1	169.5	200	8.49	33.697	3.60	26.355	168.0	0.516	
246	7.82	33.973	3.96	1.84	35.8	0.00	24.8	152.7	250	7.76	33.977	3.86	26.527	151.7	0.598	
294	7.16	33.995	2.48	2.35	49.4	0.00	31.6	142.1	300	7.07	34.000	2.36	26.643	140.6	0.673	
391	5.97	34.076	1.23	2.92	72.2	0.00	39.1	121.1	400	5.92	34.087	1.14	26.864	119.7	0.806	
487	5.51	34.172	0.51	3.12	85.4	0.05	41.7	108.5	500	5.41	34.180	0.46	26.999	106.6	0.927	
583	4.83	34.220	0.26	3.29	98.2	0.00	43.3	97.3	600	4.76	34.232	0.28	27.115	95.8	1.035	
678	4.54	34.285	0.26	3.37	108.5	0.00	44.2	89.4	700	4.49	34.302	0.26	27.201	87.7	1.133	
776	4.33	34.356	0.24	3.39	114.0	0.00	44.7	81.9	800	4.27	34.374	0.20	27.281	80.1	1.224	
871	4.10	34.415	0.15	3.41	121.0	0.00	44.7	75.2	1000	3.76	34.468	0.59	27.406	68.1	1.369	
968	3.86	34.452	0.49	3.42	126.1	0.00	44.3	70.0	1200	3.25	34.509	0.68	27.492	60.1	1.534	
1060A	3.62	34.492	0.74	3.32	132.7	0.02	44.4	64.7	1500	2.67	34.558	1.09	27.583	51.4	1.728	
1160	3.33	34.500	0.61	3.36	138.8	0.00	44.1	61.5								
1251A	3.14	34.521	0.67	3.28	145.0	0.02	44.7	58.2								
1449A	2.77	34.549	1.03	3.26	156.0	0.02	44.3	52.9								
1646A	2.43	34.582	1.51	3.19	165.0	0.02	43.0	47.6								

RV THOMAS WASHINGTON

INDOPAC LEG I

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LATITUDE		LONGITUDE		MO/DAY/YR		MESSENGER		TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES			
35 01. N		126 59.1W		3/28/76		0239		GMT		3954M	310	20KT	2	290 8 11		
Z	T	S	02	P04	SIG3	N02	N03	DT	Z	T	S	02	SIGT	DT	DD	
0	12.57	32.996	6.26					301.8	0	12.57	32.996	6.26	24.948	301.8	0.000	
10	12.56	32.992	6.26					301.9	10	12.56	32.992	6.28	24.947	301.9	0.030	
20	12.55	32.993	6.26					301.6	20	12.55	32.993	6.26	24.950	301.6	0.060	
31	12.56	32.997	6.28					301.6	30	12.56	32.999	6.28	24.951	301.5	0.091	
51	12.44	33.006	6.29					298.5	50	12.45	33.009	6.29	24.980	298.7	0.151	
76	11.59	32.900	6.36					291.3	75	11.64	32.905	6.36	25.055	291.6	0.225	
101	10.36	33.089	5.93					256.6	100	10.40	33.070	5.95	25.405	256.3	0.294	
126	9.97	33.496	5.28					220.0	125	9.98	33.484	5.31	25.792	221.4	0.355	
152	9.01	33.710	4.31					189.4	150	9.09	33.700	4.39	26.107	191.5	0.407	
201	8.19	33.966	3.02					158.4	200	8.20	33.964	3.04	26.452	158.7	0.496	
251	7.64	34.036	2.32					145.5	250	7.65	34.037	2.33	26.590	145.6	0.574	
300	6.90	34.018	2.17					137.0	300	6.90	34.018	2.17	26.681	137.0	0.647	
398	6.04	34.082	1.24					121.4	400	6.02	34.085	1.23	26.848	121.1	0.781	
496	5.36	34.166	0.75					107.5	500	5.36	34.170	0.74	26.998	107.0	0.900	
593	4.86	34.251	0.47					96.8	600	4.84	34.238	0.45	27.112	96.1	1.008	
690	4.55	34.316	0.32					87.2	700	4.50	34.322	0.32	27.215	86.3	1.106	
788	4.13	34.361	0.36					79.5	800	4.10	34.369	0.37	27.296	78.7	1.196	
887	3.94	34.420	0.44					73.2	1000	3.68	34.469	0.54	27.419	67.1	1.357	
987	3.71	34.464	0.53					67.7	1200	3.21	34.523	0.86	27.507	58.6	1.500	
1190	3.23	34.520	0.84					59.0								

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LATITUDE	LONGITUDE	MO/DAY/YR	START TIME	LATITUDE	LONGITUDE	MO/DAY/YR	START TIME	LATITUDE	LONGITUDE	MO/DAY/YR	START TIME	LATITUDE	LONGITUDE	MO/DAY/YR	START TIME	LATITUDE	LONGITUDE
35 00.7N	126 01.4	03/27/76	1545 GMT	35 01.4 N	126 59.1E	03/28/76	0150 GMT	35 00.7N	126 01.4	03/27/76	1545 GMT	35 01.4 N	126 59.1E	03/28/76	0150 GMT	35 00.7N	126 01.4
Z	T	S	SIGMA T	DT	DD	Z	T	S	SIGMA T	DT	DD	Z	T	S	SIGMA T	DT	DD
0	13.18	33.20	24.986	298.1	0.000	0	12.55	33.00	24.955	301.1	0.000	0	12.55	33.00	24.955	301.1	0.000
10	13.19	33.20	24.984	298.3	0.030	10	12.55	33.00	24.955	301.1	0.000	10	12.55	33.00	24.955	301.1	0.000
20	13.19	33.20	24.984	298.3	0.060	20	12.55	33.00	24.955	301.1	0.060	20	12.55	33.00	24.955	301.1	0.060
30	13.20	33.21	24.989	297.8	0.090	30	12.33	33.01	24.005	296.3	0.090	30	12.33	33.01	24.005	296.3	0.090
40	13.20	33.21	24.989	297.8	0.119	40	12.11	33.92	24.977	299.0	0.120	40	12.11	33.92	24.977	299.0	0.120
50	13.20	33.21	24.989	297.8	0.149	50	11.76	32.91	25.035	293.5	0.150	50	11.76	32.91	25.035	293.5	0.150
75	12.54	33.08	25.019	295.0	0.224	75	10.65	33.00	25.304	267.9	0.220	75	10.65	33.00	25.304	267.9	0.220
100	10.98	33.14	25.354	263.1	0.294	100	9.92	33.46	25.786	222.0	0.282	100	9.92	33.46	25.786	222.0	0.282
125	10.16	33.44	25.730	227.4	0.356	125	9.07	33.63	26.057	196.3	0.335	125	9.07	33.63	26.057	196.3	0.335
150	9.36	33.61	25.995	202.2	0.410	150	8.62	33.84	26.291	174.0	0.382	150	8.62	33.84	26.291	174.0	0.382
175	8.80	33.78	26.217	181.1	0.459	175	8.25	33.93	26.418	161.9	0.424	175	8.25	33.93	26.418	161.9	0.424
200	8.30	33.91	26.395	164.1	0.503	200	7.97	33.98	26.499	154.2	0.465	200	7.97	33.98	26.499	154.2	0.465
225	7.93	33.97	26.497	154.4	0.544	225	7.63	34.02	26.580	146.5	0.503	225	7.63	34.02	26.580	146.5	0.503
250	7.52	33.97	26.557	148.8	0.583	250	7.21	34.00	26.624	142.4	0.540	250	7.21	34.00	26.624	142.4	0.540
275	7.12	33.99	26.629	141.9	0.620	275	6.84	34.02	26.688	136.3	0.576	275	6.84	34.02	26.688	136.3	0.576
300	6.85	34.01	26.682	136.9	0.656	300	6.64	34.05	26.736	131.6	0.611	300	6.64	34.05	26.736	131.6	0.611
350	6.24	34.03	26.778	127.8	0.724	350	6.18	34.06	26.810	124.8	0.677	350	6.18	34.06	26.810	124.8	0.677
400	5.91	34.06	26.844	121.5	0.789	400	5.74	34.08	26.881	118.0	0.740	400	5.74	34.08	26.881	118.0	0.740
450	5.60	34.12	26.930	113.4	0.851	450	5.54	34.13	26.945	112.0	0.800	450	5.54	34.13	26.945	112.0	0.800
500	5.30	34.16	26.997	107.0	0.909	500	5.34	34.19	27.016	105.2	0.857	500	5.34	34.19	27.016	105.2	0.857
550	5.07	34.20	27.056	101.4	0.964	550	5.04	34.21	27.067	100.4	0.912	550	5.04	34.21	27.067	100.4	0.912
600	4.76	34.23	27.115	95.8	1.016	600	4.81	34.25	27.125	94.9	0.964	600	4.81	34.25	27.125	94.9	0.964
650	4.58	34.26	27.159	91.7	1.066	650	4.62	34.28	27.170	90.6	1.015	650	4.62	34.28	27.170	90.6	1.015
700	4.43	34.30	27.207	87.1	1.114	700	4.52	34.32	27.213	86.6	1.061	700	4.52	34.32	27.213	86.6	1.061
750	4.33	34.35	27.257	82.3	1.160	750	4.26	34.34	27.257	82.4	1.107	750	4.26	34.34	27.257	82.4	1.107
800	4.21	34.38	27.294	78.9	1.204	800	4.12	34.36	27.287	79.5	1.151	800	4.12	34.36	27.287	79.5	1.151
850	4.08	34.40	27.323	76.1	1.247	850	4.00	34.40	27.332	75.3	1.194	850	4.00	34.40	27.332	75.3	1.194
900	3.97	34.42	27.350	73.5	1.288	900	3.92	34.43	27.364	72.3	1.234	900	3.92	34.43	27.364	72.3	1.234
950	3.89	34.44	27.375	71.2	1.328	950	3.77	34.45	27.395	69.3	1.274	950	3.77	34.45	27.395	69.3	1.274
1000	3.78	34.46	27.402	68.7	1.368	1000	3.64	34.47	27.424	66.6	1.312	1000	3.64	34.47	27.424	66.6	1.312
1100	3.47	34.49	27.456	63.5	1.442	1100	3.41	34.50	27.470	62.2	1.385	1100	3.41	34.50	27.470	62.2	1.385
1200	3.25	34.51	27.493	60.0	1.513	1200	3.22	34.52	27.504	58.9	1.454	1200	3.22	34.52	27.504	58.9	1.454
1300	3.02	34.53	27.531	56.4	1.580												
1400	2.81	34.54	27.557	53.9	1.644												
1500	2.65	34.56	27.588	51.0	1.705												
1600	2.490	34.583	27.620	48.0	1.764												
1700	2.317	34.594	27.643	45.8	1.819												
1800	2.200	34.605	27.661	44.0	1.873												
1900	2.116	34.619	27.679	42.3	1.925												
2000	2.030	34.627	27.693	41.1	1.976												
2100	1.951	34.635	27.705	39.9	2.025												
2200	1.876	34.641	27.716	38.9	2.074												
2300	1.829	34.647	27.724	38.1	2.121												
2400	1.773	34.654	27.734	37.1	2.168												
2500	1.733	34.656	27.740	36.6	2.214												
2600	1.695	34.663	27.747	35.9	2.260												
2700	1.661	34.666	27.752	35.4	2.305												
2800	1.621	34.665	27.754	35.2	2.350												
2900	1.608	34.671	27.760	34.7	2.395												
3000	1.582	34.670	27.761	34.6	2.440												
3100	1.563	34.673	27.765	34.2	2.484												
3200	1.541	34.676	27.769	33.8	2.529												
3300	1.527	34.678	27.772	33.6	2.573												
3400	1.514	34.680	27.774	33.4	2.617												
3500	1.501	34.682	27.777	33.1	2.661												
3600	1.491	34.684	27.779	32.9	2.705												
3700	1.486	34.685	27.780	32.8	2.749												
3800	1.486	34.687	27.782	32.6	2.794												
3845	1.487	34.687	27.782	32.6	2.814												

RV THOMAS WASHINGTON

INDOPAC LEG 1

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LATITUDE		LONGITUDE		MO/DAY/YR		PASSENGER TIME		BOTTOM		WIND		SPEED		WEATHER		DOMINANT WAVES	
34 59.1		128 03.2W		3/28/76		1034 1455		4839M		310		20KT		2		300 8 10	
Z	T	S	U2	P04	SIG5	R02	R03	DT	Z	T	S	U2	SIGT	DT	SD		
3	12.56	32.999	6.29	0.32	2.9	0.00	0.0	301.3	0	12.56	32.999	6.29	24.952	301.3	0.000		
10	12.55	32.995	6.31	0.32	3.1	0.00	0.0	301.5	10	12.55	32.995	6.31	24.951	301.5	0.030		
20	12.55	32.997	6.29	0.33	3.5	0.00	0.0	301.3	20	12.55	32.997	6.29	24.953	301.3	0.060		
31	12.54	33.004	5.940	0.43	3.9	0.00	0.0	300.6	30	12.54	33.006	6.32	24.959	300.7	0.090		
51	11.55	33.050	6.39	0.47	4.8	0.03	0.7	279.5	50	11.64	33.050	6.39	25.164	281.2	0.149		
61	10.32	33.065	5.93	0.75	7.7	0.16	5.0	257.7	75	10.11	33.345	5.47	25.662	233.8	0.214		
77	10.08	33.375	5.41	1.16	13.0	0.03	11.4	230.9	100	9.39	33.545	4.82	25.937	207.6	0.269		
92	9.44	33.487	4.99	1.25	15.8	0.04	14.4	212.5	125	8.84	33.788	3.60	26.216	181.2	0.318		
101	9.39	33.550	4.80	1.43	18.2	0.02	16.4	207.1	150	8.36	33.888	3.17	26.368	166.7	0.362		
126	8.81	33.796	3.55	1.84	24.1	0.04	24.3	180.1	200	7.74	33.965	3.38	26.521	152.1	0.444		
151	8.34	33.888	3.17	1.99	34.2	0.02	27.1	166.3	250	6.96	33.987	2.57	26.648	140.2	0.518		
200	7.74	33.965	3.38	1.98	38.0	0.00	27.0	152.1	300	6.34	34.009	1.90	26.747	130.7	0.588		
246	6.99	33.985	2.60	2.20	49.3	0.04	31.0	140.6	400	5.70	34.101	0.94	26.902	116.1	0.716		
298	6.36	34.006	1.92	2.55	60.6	0.04	35.0	131.0	500	5.11	34.197	0.43	27.049	102.1	0.830		
402	5.69	34.102	0.93	3.06	76.7	0.03	40.1	115.8	600	4.72	34.287	0.35	27.140	93.5	0.934		
500A	5.11	34.197	0.43	3.21	92.3	0.04	42.6	102.1	700	4.26	34.316	0.25	27.237	84.3	1.030		
601A	4.72	34.287	0.35	3.27	103.4	0.05	43.5	93.4	800	4.09	34.379	0.28	27.305	77.8	1.118		
701A	4.26	34.316	0.25	3.34	115.3	0.02	44.3	84.2	1000	3.60	34.462	0.52	27.421	66.8	1.278		
791A	4.11	34.373	0.27	3.36	120.8	0.02	44.6	78.4	1200	3.17	34.515	0.68	27.504	58.9	1.420		
944E	3.70	34.442	0.46	3.23	132.7	0.00	44.1	69.2	1500	2.64	34.561	1.08	27.569	50.9	1.611		
1005A	3.59	34.463	0.52	3.26	134.1	0.00	44.7	66.6	1750	2.30	34.585	1.42	27.636	45.9	1.754		
1245B	3.07	34.523	0.72	3.21	148.7	0.00	43.4	57.4	2000	2.03	34.615	1.77	27.682	41.9	1.886		
1541R	2.58	34.565	0.780	3.16	161.4	0.00	43.0	50.1	2250	1.86	34.630	2.03	27.707	39.4	2.011		
2035B	2.00	34.619	1.82	3.07	177.9	0.00	41.1	41.5	2500	1.76	34.646	2.24	27.728	37.7	2.130		
2529B	1.75	34.647	2.26	2.92	182.4	0.04	39.1	37.5	2750	1.67	34.654	2.37	27.741	36.4	2.247		
3029B	1.60	34.663	2.53	2.84	183.9	0.00	38.5	35.2	3000	1.61	34.663	2.52	27.753	35.3	2.362		
3518E	1.50	34.680	3.08	2.70	178.4	0.01	37.6	33.3	3250	1.55	34.671	2.78	27.764	34.2	2.475		
4010E	1.50	34.685	3.32	2.55	172.4	0.00	36.8	32.9	3500	1.50	34.680	3.06	27.774	33.3	2.586		
4500E	1.536	34.685	2.52	2.52	167.3	0.00	36.8	33.1	3750	1.50	34.683	3.22	27.777	33.1	2.697		
4694E	1.558	34.688	3.50	2.52	166.3	0.00	35.9	33.0	4000	1.50	34.686	3.32	27.779	32.9	2.809		
									4250	1.52	34.686	3.40	27.778	33.0	2.923		
									4500	1.54	34.685	3.47	27.777	33.1	3.040		

RV THOMAS WASHINGTON

INDOPAC LEG 1

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LATITUDE		LONGITUDE		MO/DAY/YR		MESSENGER TIME		BOTTOM		WIND		SPEED		WEATHER		DOMINANT WAVES	
34 58.8N		129 02.2W		3/28/76		2051 GMT		4765M		340		17KT		2		300 8 12	
Z	T	S	U2	P04	SIG3	R02	R03	DT	Z	T	S	U2	SIGT	DT	OD		
0	12.55	33.017	6.23					299.8	0	12.55	33.017	6.23	24.968	299.8	0.000		
10	12.50	33.016	6.25					299.0	10	12.50	33.016	6.25	24.977	299.0	0.030		
20	12.51	33.016	6.26					299.2	20	12.51	33.016	6.26	24.975	299.2	0.060		
31	12.52	33.016	6.26					299.4	30	12.52	33.016	6.26	24.973	299.3	0.090		
50	12.29	32.984	6.30					297.5	50	12.29	32.984	6.30	24.992	297.5	0.150		
76	11.41	32.900	6.34					286.2	75	11.45	32.906	6.34	25.087	288.5	0.223		
100	10.98	32.864	6.30					283.5	100	10.98	32.864	6.30	25.140	283.5	0.295		
126	10.62	33.017	6.11					266.2	125	10.64	33.009	6.12	25.311	267.2	0.365		
151	9.99	33.401	5.30					227.5	150	10.02	33.386	5.34	25.710	229.2	0.428		
201	8.64	33.856	3.21					173.1	200	8.66	33.852	3.25	26.293	173.8	0.530		
252	7.93	33.985	2.97					153.3	250	7.95	33.986	2.98	26.505	153.7	0.614		
301	6.98	33.973	3.27					141.4	300	7.00	33.975	3.27	26.633	141.6	0.690		
401	6.34	34.081	1.39					125.2	400	6.34	34.081	1.41	26.804	125.3	0.828		
499	4.98	34.087	1.30					108.9	500	4.97	34.089	1.30	26.978	108.6	0.951		
598	4.68	34.204	0.77					97.0	600	4.68	34.207	0.76	27.106	96.7	1.059		
698	4.48	34.319	0.27					86.2	700	4.47	34.321	0.27	27.218	86.1	1.157		
796	4.21	34.378	0.30					79.0	800	4.20	34.380	0.30	27.295	78.8	1.247		
895	3.92	34.424	0.40					72.7	1000	3.61	34.466	0.39	27.423	66.5	1.408		
993	3.63	34.466	0.39					66.8	1200	3.00	34.503	0.61	27.511	58.3	1.549		
1195	3.02	34.502	0.60					58.5									

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LATITUDE	LONGITUDE	MO/DAY/YR	START TIME			LATITUDE	LONGITUDE	MO/DAY/YR	START TIME			LATITUDE	LONGITUDE	MO/DAY/YR	START TIME		
34 54. N	128 03.2W	03/28/76	0828 GMT			34 58.40	129 02.2W	03/28/76	2007 GMT			34 58.40	129 02.2W	03/28/76	2007 GMT		
Z	T	S	SIGMA T	DT	DD	Z	T	S	SIGMA T	DT	DD	Z	T	S	SIGMA T	DT	DD
0	12.51	32.96	24.932	303.3	0.000	0	12.46	33.02	24.988	298.0	0.000	0	12.46	33.02	24.988	298.0	0.000
10	12.50	32.97	24.941	302.4	0.030	10	12.46	33.02	24.988	298.0	0.030	10	12.46	33.02	24.988	298.0	0.030
20	12.45	32.99	24.966	300.0	0.060	20	12.44	33.02	24.997	297.6	0.060	20	12.44	33.02	24.997	297.6	0.060
30	11.86	33.01	25.093	287.9	0.090	30	12.37	33.01	24.997	297.1	0.089	30	12.37	33.01	24.997	297.1	0.089
40	11.54	33.02	25.160	281.5	0.118	40	12.24	33.01	25.022	294.7	0.119	40	12.24	33.01	25.022	294.7	0.119
50	10.76	33.03	25.308	267.5	0.146	50	12.00	32.98	25.044	292.6	0.149	50	12.00	32.98	25.044	292.6	0.149
75	10.04	33.39	25.711	229.1	0.208	75	11.19	32.89	25.123	285.1	0.221	75	11.19	32.89	25.123	285.1	0.221
100	9.49	33.48	25.872	213.8	0.264	100	10.84	32.88	25.177	280.0	0.292	100	10.84	32.88	25.177	280.0	0.292
125	9.00	33.72	26.138	188.5	0.315	125	10.44	33.13	25.441	254.9	0.360	125	10.44	33.13	25.441	254.9	0.360
150	8.31	33.87	26.362	167.2	0.360	150	9.81	33.52	25.651	215.6	0.419	150	9.81	33.52	25.651	215.6	0.419
175	7.85	33.94	26.486	155.5	0.401	175	9.12	33.70	26.104	191.8	0.471	175	9.12	33.70	26.104	191.8	0.471
200	7.42	33.95	26.556	148.9	0.440	200	8.83	33.79	26.220	180.8	0.518	200	8.83	33.79	26.220	180.8	0.518
225	7.15	33.96	26.601	144.6	0.477	225	8.27	33.92	26.408	162.9	0.562	225	8.27	33.92	26.408	162.9	0.562
250	6.81	33.97	26.656	139.4	0.514	250	7.82	33.97	26.514	152.9	0.603	250	7.82	33.97	26.514	152.9	0.603
275	6.66	33.97	26.676	137.5	0.549	275	7.44	33.98	26.576	146.9	0.641	275	7.44	33.98	26.576	146.9	0.641
300	6.41	33.98	26.717	133.6	0.584	300	7.00	33.97	26.630	141.6	0.679	300	7.00	33.97	26.630	141.6	0.679
350	5.97	34.03	26.813	124.5	0.651	350	6.73	34.06	26.737	131.6	0.749	350	6.73	34.06	26.737	131.6	0.749
400	5.70	34.08	26.886	117.6	0.714	400	6.18	34.07	26.818	124.0	0.816	400	6.18	34.07	26.818	124.0	0.816
450	5.46	34.14	26.962	110.3	0.773	450	5.34	34.05	26.906	115.7	0.878	450	5.34	34.05	26.906	115.7	0.878
500	5.20	34.16	27.009	105.5	0.830	500	4.91	34.10	26.995	107.2	0.937	500	4.91	34.10	26.995	107.2	0.937
550	4.89	34.21	27.084	98.7	0.884	550	4.75	34.16	27.061	101.0	0.992	550	4.75	34.16	27.061	101.0	0.992
600	4.71	34.25	27.136	93.6	0.936	600	4.62	34.22	27.123	95.1	1.044	600	4.62	34.22	27.123	95.1	1.044
650	4.49	34.28	27.184	89.3	0.985	650	4.45	34.27	27.181	89.6	1.093	650	4.45	34.27	27.181	89.6	1.093
700	4.23	34.30	27.228	85.1	1.031	700	4.41	34.23	27.233	84.7	1.140	700	4.41	34.23	27.233	84.7	1.140
750	4.15	34.35	27.276	80.5	1.076	750	4.30	34.26	27.268	81.3	1.185	750	4.30	34.26	27.268	81.3	1.185
800	4.02	34.38	27.314	77.0	1.115	800	4.17	34.29	27.306	77.7	1.228	800	4.17	34.29	27.306	77.7	1.228
850	3.82	34.40	27.350	73.6	1.160	850	4.12	34.41	27.337	74.7	1.270	850	4.12	34.41	27.337	74.7	1.270
900	3.73	34.42	27.375	71.2	1.200	900	3.67	34.43	27.369	71.8	1.311	900	3.67	34.43	27.369	71.8	1.311
950	3.65	34.45	27.407	68.2	1.239	950	3.69	34.44	27.395	69.3	1.350	950	3.69	34.44	27.395	69.3	1.350
1000	3.53	34.46	27.427	66.3	1.277	1000	3.60	34.46	27.422	66.9	1.388	1000	3.60	34.46	27.422	66.9	1.388
1100	3.32	34.49	27.471	62.1	1.349	1100	3.36	34.49	27.472	61.9	1.461	1100	3.36	34.49	27.472	61.9	1.461
1200	3.11	34.51	27.506	56.7	1.418	1200	3.03	34.51	27.514	56.0	1.529	1200	3.03	34.51	27.514	56.0	1.529
1300	2.95	34.53	27.537	55.0	1.483												
1400	2.79	34.55	27.567	53.0	1.547												
1500	2.60	34.56	27.592	50.6	1.607												
1600	2.46	34.57	27.616	48.3	1.665												
1700	2.310	34.589	27.640	46.1	1.721												
1800	2.168	34.603	27.662	44.0	1.775												
1900	2.068	34.615	27.680	42.3	1.827												
2000	1.994	34.623	27.692	41.1	1.877												
2100	1.907	34.631	27.705	39.9	1.927												
2200	1.850	34.635	27.713	39.1	1.975												
2300	1.803	34.640	27.721	36.4	2.023												
2400	1.771	34.645	27.727	37.6	2.070												
2500	1.728	34.651	27.735	37.1	2.117												
2600	1.693	34.655	27.741	36.5	2.163												
2700	1.653	34.658	27.746	36.0	2.209												
2800	1.631	34.660	27.750	35.7	2.254												
2900	1.611	34.663	27.753	35.3	2.299												
3000	1.586	34.666	27.758	34.9	2.345												
3100	1.568	34.668	27.761	34.6	2.390												
3200	1.551	34.670	27.764	34.4	2.434												
3300	1.533	34.673	27.767	34.0	2.479												
3400	1.516	34.675	27.770	33.7	2.524												
3500	1.501	34.678	27.774	33.4	2.568												
3600	1.492	34.680	27.776	33.2	2.612												
3700	1.498	34.681	27.777	33.1	2.657												
3800	1.486	34.682	27.778	33.0	2.701												
3900	1.489	34.683	27.778	32.9	2.746												
4000	1.493	34.683	27.778	33.0	2.791												
4100	1.498	34.684	27.779	32.9	2.837												
4200	1.504	34.685	27.779	32.9	2.882												
4300	1.514	34.684	27.777	33.0	2.928												
4400	1.524	34.686	27.776	33.0	2.975												
4500	1.535	34.686	27.778	33.0	3.022												
4600	1.544	34.686	27.777	33.1	3.069												
4700	1.556	34.686	27.776	33.2	3.117												
4748	1.561	34.687	27.776	33.1	3.140												

RV THOMAS WASHINGTON

INDOPAC LEG 1

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	LATITUDE		LONGITUDE		MO/DAY/YR		MESSENGER		TIME	DEPTH	WIND		SPEED	WEATHER	DOMINANT WAVES		
	35 00. N		130 01.4W		3/29/76		0345 0712		GMT	4790M							
Z	T	S	Q2	P04	SI03	N02	N03	LT	Z	T	S	Q2	SI02	DT	DD		
5	14.17	33.415	6.02	0.28	3.2	0.00	0.0	301.6	0	14.17	33.415	6.02	24.949	301.6	0.000		
15	14.14	33.413	5.97	0.29		0.00	0.0	301.2	10	14.15	33.416	5.99	24.952	301.4	0.030		
22	14.15	33.414	6.01	0.30				301.3	20	14.15	33.416	6.00	24.953	301.2	0.060		
32	14.14	33.413	6.08	0.30	3.0	0.00	0.0	301.2	30	14.14	33.415	6.07	24.954	301.2	0.091		
51	14.15	33.413	6.00	0.31	2.9	0.00	0.0	301.4	50	14.15	33.415	6.01	24.952	301.3	0.151		
77	14.09	33.404	6.03	0.32	2.8	0.00	0.0	300.8	75	14.09	33.407	6.03	24.957	300.9	0.227		
101	13.28	33.247	6.08	0.32	2.7	0.00	0.0	296.6	100	13.32	33.256	6.08	25.000	296.8	0.302		
126	12.90	33.182	5.530	0.34	2.8	0.03	0.1	294.2	125	12.92	33.188	5.96	25.026	294.3	0.377		
153	11.44	33.409	5.63	0.58	5.4	0.00	3.6	251.1	150	11.62	33.379	5.68	25.421	256.7	0.446		
202	9.30	33.681	4.61	1.34	18.0	0.00	16.0	196.0	200	9.37	33.673	4.66	26.042	197.7	0.562		
252	8.46	33.942	3.81	1.75	30.4	0.00	22.8	164.1	250	8.46	33.936	3.83	26.387	164.9	0.654		
302	7.70	33.981	3.66	1.92	37.1	0.00	25.4	150.4	300	7.73	33.983	3.66	26.536	150.7	0.736		
403	6.39	34.022	1.91	2.61	59.0	0.00	34.6	130.2	400	6.42	34.022	1.97	26.748	130.7	0.882		
502	5.59	34.079	1.13	2.94	74.9	0.00	39.4	116.4	500	5.60	34.079	1.14	26.896	116.6	1.011		
603	5.06	34.166	0.61	3.17	89.6	0.00	41.9	103.9	600	5.07	34.164	0.62	27.026	104.2	1.128		
689A	4.70	34.252	0.41	3.19	103.1	0.00	43.6	93.6	700	4.66	34.249	0.33	27.140	93.3	1.234		
701	4.66	34.250	0.32	3.28	102.9	0.00	43.6	93.3	800	4.42	34.325	0.21	27.227	85.2	1.330		
802	4.42	34.327	0.21	3.34	110.7	0.00	44.8	85.0	1000	3.79	34.440	0.37	27.364	70.5	1.503		
900	4.10	34.392	0.28	3.35	119.4	0.00	44.4	76.9	1200	3.31	34.490	0.68	27.471	62.1	1.653		
999	3.79	34.436	0.37	3.36	127.4	0.00	44.5	70.5	1500	2.68	34.467	1.06	27.510	58.3	1.860		
1187A	3.34	34.496	0.69	3.28	141.3	0.00	45.3	61.8	1750	2.29	34.533	1.38	27.596	50.2	2.017		
1195	3.32	34.490	0.67	3.29	139.0	0.00	44.4	62.1	2000	2.01	34.615	1.69	27.684	41.9	2.155		
1889A	2.12	34.601	1.56	3.09	174.3	0.00	41.5	43.7	2250	1.81	34.634	1.98	27.715	38.8	2.278		
2188A	1.85	34.632	1.91	2.97	182.0	0.00	41.3	39.4	2500	1.70	34.643	2.25	27.730	36.8	2.396		
2887A	1.60	34.663	2.61	2.84	184.8	0.00	39.6	35.2	2750	1.62	34.655	2.49	27.746	35.6	2.512		
3164A	1.54	34.669	2.82	2.79	181.7	0.00	38.9	34.4	3000	1.57	34.666	2.69	27.758	34.9	2.625		
3873A	1.48	34.68	2.70	171.9	0.00	36.9	33.3	3250	1.53	34.671	2.87	27.765	34.2	2.737			
4169A	1.50	34.684	3.44	2.69	168.9	0.00	37.1	32.9	3500	1.51	34.673	3.07	27.768	33.8	2.849		
4412A	1.522	34.685	3.48	2.66	166.8	0.00	36.9	33.0	3750	1.49	34.676	3.23	27.772	33.5	2.962		
4659A	1.542	34.692	2.63	164.2	0.00	36.8	32.6	4000	1.49	34.681	3.36	27.776	33.1	3.074			
								4250	1.51	34.685	3.46	27.778	33.0	3.189			
								4500	1.53	34.688		27.779	33.0	3.305			

RV THOMAS WASHINGTON

INDOPAC LEG 1

10

LATITUDE		LONGITUDE		MO/DAY/YR		MESSENGER		TIME	DEPTH	WIND		SPEED	WEATHER	DOMINANT WAVES		
35 01.6N		131 00.6W		3/29/76		1344		GMT	5053M	350		BKT	2	300 6 10		
Z	T	S	Q2	P04	SI03	N02	N03	DT	Z	T	S	Q2	SI02	DT	DD	
0	15.14	33.673	5.86					302.5	0	15.14	33.673	5.86	24.940	302.5	0.000	
10	15.16	33.673	5.86					302.9	10	15.16	33.673	5.86	24.936	302.9	0.030	
20	15.17	33.678	5.87					302.7	20	15.17	33.678	5.87	24.937	302.7	0.061	
31	15.16	33.675	5.87					302.7	30	15.16	33.677	5.87	24.937	302.7	0.091	
51	15.16	33.677	5.87					302.6	50	15.16	33.679	5.87	24.939	302.6	0.152	
76	15.22	33.701	5.86					302.1	75	15.22	33.702	5.86	24.944	302.1	0.228	
101	16.05	34.094	5.72					291.0	100	16.03	34.082	5.73	25.034	291.6	0.303	
127	14.39	33.859	5.74					273.5	125	14.58	33.890	5.74	25.227	275.2	0.374	
152	11.80	33.588	5.59					244.2	150	12.01	33.606	5.61	25.526	246.7	0.440	
202	9.77	33.752	4.96					198.0	200	9.80	33.739	5.00	26.021	199.6	0.554	
252	8.39	33.946	3.56					162.7	250	8.43	33.941	3.61	26.398	163.8	0.647	
302	7.75	33.982	3.40					151.0	300	7.77	33.984	3.41	26.531	151.3	0.728	
403	6.26	34.028	1.79					128.1	400	6.30	34.028	1.85	26.768	128.8	0.873	
501	5.45	34.127	0.83					111.2	500	5.46	34.127	0.84	26.952	111.3	0.999	
602	4.90	34.202	0.49					99.4	600	4.91	34.202	0.49	27.075	99.6	1.111	
700	4.52	34.280	0.26					89.6	700	4.52	34.280	0.26	27.181	89.6	1.212	
800	4.31	34.358	0.22					81.6	800	4.31	34.358	0.22	27.266	81.6	1.305	
899	4.03	34.404	0.28					75.3	1000	3.76	34.431	0.39	27.380	69.6	1.472	
998	3.76	34.444	0.39					69.7	1200	3.26	34.502	0.65	27.486	60.7	1.620	
1198	3.27	34.501	0.65					60.8								

90						INDOPAC LEG 1						10					
LATITUDE	LONGITUDE	MO/DAY/YR	START TIME			LATITUDE	LONGITUDE	MO/DAY/YR	START TIME			LATITUDE	LONGITUDE	MO/DAY/YR	START TIME		
35 00. N	130 01.4W	03/29/76	0216 GMT			35 01.6N	131 00.6W	03/29/76	1258 GMT			35 01.6N	131 00.6W	03/29/76	1258 GMT		
Z	T	S	SIGMA T	DT	DD	Z	T	S	SIGMA T	DT	DD	Z	T	S	SIGMA T	DT	DD
0	14.18	33.41	24.943	302.2	0.000	0	15.16	33.67	24.933	303.1	0.000	0	15.16	33.67	24.933	303.1	0.000
10	14.15	33.40	24.942	302.3	0.030	10	15.16	33.67	24.933	303.1	0.030	10	15.16	33.67	24.933	303.1	0.030
20	14.14	33.40	24.944	302.1	0.060	20	15.17	33.68	24.939	302.6	0.061	20	15.17	33.68	24.939	302.6	0.061
30	14.13	33.40	24.946	301.9	0.091	30	15.17	33.68	24.939	302.6	0.091	30	15.17	33.68	24.939	302.6	0.091
40	14.11	33.40	24.950	301.5	0.121	40	15.17	33.69	24.947	301.8	0.121	40	15.17	33.69	24.947	301.8	0.121
50	14.10	33.40	24.952	301.3	0.151	50	15.17	33.69	24.947	301.8	0.152	50	15.17	33.69	24.947	301.8	0.152
75	14.04	33.40	24.965	300.1	0.227	75	15.53	33.83	24.974	299.2	0.227	75	15.53	33.83	24.974	299.2	0.227
100	13.29	33.25	25.002	296.6	0.302	100	15.90	34.12	25.114	285.9	0.301	100	15.90	34.12	25.114	285.9	0.301
125	13.24	33.28	25.035	293.4	0.376	125	13.95	33.88	25.353	263.2	0.370	125	13.95	33.88	25.353	263.2	0.370
150	11.68	33.34	25.382	260.4	0.447	150	11.62	33.61	25.603	239.4	0.434	150	11.62	33.61	25.603	239.4	0.434
175	10.99	33.62	25.725	227.8	0.508	175	10.78	33.66	25.793	221.3	0.493	175	10.78	33.66	25.793	221.3	0.493
200	9.60	33.59	25.940	207.4	0.564	200	10.07	33.78	26.009	200.8	0.546	200	10.07	33.78	26.009	200.8	0.546
225	8.86	33.84	26.254	177.5	0.613	225	8.63	33.96	26.384	165.2	0.593	225	8.63	33.96	26.384	165.2	0.593
250	8.47	33.93	26.385	165.1	0.657	250	8.12	33.97	26.469	157.1	0.634	250	8.12	33.97	26.469	157.1	0.634
275	7.90	33.97	26.502	154.0	0.698	275	7.72	33.99	26.544	150.0	0.674	275	7.72	33.99	26.544	150.0	0.674
300	7.56	33.97	26.551	149.3	0.737	300	7.44	33.99	26.584	146.2	0.712	300	7.44	33.99	26.584	146.2	0.712
350	6.82	33.98	26.662	138.8	0.811	350	6.66	33.99	26.692	136.0	0.785	350	6.66	33.99	26.692	136.0	0.785
400	6.34	34.01	26.750	130.5	0.881	400	6.22	34.03	26.781	127.5	0.854	400	6.22	34.03	26.781	127.5	0.854
450	5.87	34.04	26.833	122.6	0.948	450	5.78	34.07	26.868	119.3	0.918	450	5.78	34.07	26.868	119.3	0.918
500	5.50	34.08	26.910	115.3	1.010	500	5.44	34.12	26.949	111.6	0.979	500	5.44	34.12	26.949	111.6	0.979
550	5.11	34.12	26.988	107.9	1.069	550	5.22	34.18	27.022	104.6	1.036	550	5.22	34.18	27.022	104.6	1.036
600	4.95	34.17	27.046	102.4	1.124	600	4.87	34.20	27.079	99.3	1.090	600	4.87	34.20	27.079	99.3	1.090
650	4.73	34.22	27.110	96.3	1.177	650	4.67	34.25	27.141	93.4	1.141	650	4.67	34.25	27.141	93.4	1.141
700	4.59	34.26	27.157	91.8	1.228	700	4.53	34.28	27.180	89.7	1.191	700	4.53	34.28	27.180	89.7	1.191
750	4.44	34.30	27.206	87.2	1.276	750	4.41	34.33	27.233	84.7	1.238	750	4.41	34.33	27.233	84.7	1.238
800	4.31	34.34	27.251	82.9	1.323	800	4.32	34.36	27.266	81.5	1.283	800	4.32	34.36	27.266	81.5	1.283
850	4.13	34.37	27.294	78.8	1.367	850	4.13	34.39	27.310	77.3	1.327	850	4.13	34.39	27.310	77.3	1.327
900	4.01	34.40	27.330	75.4	1.410	900	4.01	34.41	27.338	74.6	1.369	900	4.01	34.41	27.338	74.6	1.369
950	3.86	34.42	27.362	72.4	1.451	950	3.91	34.43	27.365	72.2	1.410	950	3.91	34.43	27.365	72.2	1.410
1000	3.72	34.44	27.392	69.6	1.490	1000	3.78	34.45	27.394	69.4	1.449	1000	3.78	34.45	27.394	69.4	1.449
1100	3.43	34.47	27.444	64.6	1.566	1100	3.48	34.49	27.455	63.6	1.524	1100	3.48	34.49	27.455	63.6	1.524
1200	3.20	34.49	27.482	61.0	1.637	1200	3.28	34.51	27.490	60.2	1.595	1200	3.28	34.51	27.490	60.2	1.595
1300	2.99	34.52	27.525	56.9	1.705												
1400	2.84	34.53	27.547	54.9	1.770												
1500	2.67	34.55	27.578	52.0	1.832												
1600	2.501	34.568	27.607	49.2	1.892												
1700	2.326	34.579	27.630	47.0	1.949												
1800	2.167	34.596	27.657	44.5	2.003												
1900	2.080	34.606	27.672	43.0	2.055												
2000	1.975	34.615	27.687	41.6	2.106												
2100	1.897	34.623	27.700	40.4	2.156												
2200	1.841	34.630	27.710	39.5	2.205												
2300	1.794	34.636	27.718	38.7	2.253												
2400	1.760	34.640	27.724	38.1	2.300												
2500	1.723	34.644	27.730	37.6	2.347												
2600	1.682	34.651	27.739	36.7	2.394												
2700	1.646	34.656	27.745	36.1	2.440												
2800	1.618	34.659	27.750	35.7	2.485												
2900	1.594	34.664	27.755	35.1	2.530												
3000	1.576	34.666	27.758	34.8	2.575												
3100	1.559	34.669	27.762	34.5	2.620												
3200	1.544	34.672	27.766	34.2	2.665												
3300	1.529	34.672	27.767	34.1	2.709												
3400	1.517	34.675	27.770	33.7	2.754												
3500	1.502	34.677	27.773	33.5	2.796												
3600	1.494	34.679	27.775	33.3	2.843												
3700	1.491	34.680	27.776	33.2	2.887												
3800	1.491	34.681	27.777	33.1	2.932												
3900	1.486	34.682	27.778	33.0	2.977												
4000	1.488	34.683	27.779	32.9	3.022												
4100	1.495	34.684	27.779	32.9	3.067												
4200	1.501	34.685	27.779	32.9	3.113												
4300	1.507	34.685	27.779	32.9	3.159												
4400	1.520	34.685	27.778	33.0	3.205												
4500	1.532	34.685	27.777	33.1	3.252												
4600	1.540	34.686	27.777	33.1	3.299												
4700	1.549	34.687	27.777	33.1	3.347												
4718	1.551	34.687	27.777	33.1	3.355												

RV THOMAS WASHINGTON

INDOPAC LEG I

11

LATITUDE		LONGITUDE		MO/DAY/YR		MESSENGER TIME		BOTTOM		WIND		SPEED		WEATHER		DOMINANT WAVES	
33 01.2N		132 03.5W		3/29/76		2028 0035 GMT		5006M		330		4KT		2		310 6 10	
Z	T	S	O2	PO4	SIC3	NO2	NO3	DT	Z	T	S	O2	SIGT	DT	DD		
0	15.23	33.47	5.92	0.25	3.4	0.00	0.0	319.2	0	15.23	33.47	5.92	24.764	319.2	0.000		
10	14.84	33.46	6.00	0.26	3.4	0.00	0.0	310.4	10	14.84	33.46	6.00	24.857	310.4	0.031		
31	14.84	33.50	5.98	0.27	3.4	0.00	0.0	308.9	20	14.84	33.49	5.99	24.964	309.7	0.063		
51	14.83	33.52	5.93	0.27	3.3	0.00	0.0	307.3	30	14.84	33.50	5.98	24.872	309.0	0.094		
77	15.06	33.68	5.91	0.28	3.3	0.00	0.0	300.3	50	14.83	33.52	5.93	24.888	307.4	0.155		
92	13.81	33.62	5.94	0.33	3.5	0.00	0.0	279.5	75	15.04	33.67	5.91	24.957	300.8	0.232		
102	13.06	33.55	5.83	0.42	4.6	0.03	1.0	270.2	100	13.19	33.56	5.86	25.262	271.9	0.304		
112	12.76	33.60	5.69	0.52	5.6	0.05	2.0	260.8	125	11.93	33.56	5.48	25.503	249.0	0.370		
153	10.01	33.45	5.02	1.13	12.5	0.00	12.2	224.2	150	10.22	33.46	5.07	25.736	226.8	0.430		
203	8.99	33.79	4.33	1.62	22.9	0.00	19.5	183.2	200	9.01	33.77	4.37	26.171	185.4	0.535		
253	8.07	33.95	3.72	1.88	33.6	0.00	24.3	157.9	250	8.12	33.95	3.75	26.450	158.9	0.623		
302	7.55	33.95	3.43	2.06	40.8	0.00	27.1	148.0	300	7.28	33.95	3.44	26.563	148.2	0.702		
401	6.25	34.00	1.70	2.73	63.3	0.00	36.6	130.1	400	6.26	34.00	1.72	26.752	130.3	0.846		
500	5.59	34.08	0.96	3.07	77.8	0.01	40.0	116.3	500	5.59	34.08	0.96	26.899	116.3	0.975		
598	5.00	34.16	0.57	3.23	93.1	0.00	42.3	103.7	600	4.99	34.16	0.56	27.035	103.4	1.091		
695	4.49	34.25	0.32	3.32	107.2	0.00	44.3	91.5	700	4.47	34.25	0.31	27.165	91.1	1.195		
794	4.13	34.30	0.26	3.37	118.2	0.00	44.3	84.1	800	4.11	34.30	0.26	27.243	83.7	1.290		
892	3.87	34.37	0.24	3.39	126.8	0.00	45.4	76.3	1000	3.65	34.44	0.35	27.402	68.6	1.458		
939A	3.75	34.420	0.39	3.36	129.1	0.00	45.2	71.4	1200	3.17	34.50	0.65	27.494	59.9	1.603		
990	3.67	34.44	0.34	3.39	132.9	0.00	45.3	69.1	1500	2.60	34.56	1.10	27.591	50.7	1.795		
1191	3.19	34.50	0.64	3.34	145.3	0.00	45.4	60.2	1750	2.25	34.59	1.43	27.650	45.2	1.937		
1438A	2.71	34.549	1.01	2.23	157.7	0.00	44.4	52.4	2000	1.97	34.62	1.74	27.688	41.3	2.066		
1933A	2.02	34.612	1.66	3.09	176.2	0.00	42.5	42.1	2250	1.81	34.63	2.01	27.712	38.8	2.188		
2429A	1.74	34.645	2.19	2.96	181.5	0.00	40.9	37.6	2500	1.71	34.65	2.25	27.734	37.1	2.306		
2924A	1.57	34.665	2.63	2.87	181.2	0.00	39.6	34.9	2750	1.62	34.66	2.48	27.748	35.7	2.420		
3419A	1.50	34.678	3.07	2.73	176.0	0.00	38.4	33.4	3000	1.55	34.67	2.70	27.761	34.6	2.532		
3914A	1.48	34.683	3.31	2.68	171.5	0.00	37.9	32.9	3250	1.52	34.67	2.93	27.768	33.8	2.644		
4411A	1.52	34.686	3.41	2.67	166.4	0.00	37.4	32.9	3500	1.50	34.68	3.12	27.774	33.3	2.754		
4804A	1.560	34.688	3.55	2.62	162.3	0.00	36.7	33.1	3750	1.49	34.68	3.25	27.777	33.0	2.865		
4904A	1.570	34.688	3.54	2.61	162.8	0.00	36.7	33.1	4000	1.49	34.68	3.33	27.779	32.9	2.977		

RV THOMAS WASHINGTON

INDOPAC LEG I

12

LATITUDE		LONGITUDE		MO/DAY/YR		MESSENGER TIME		BOTTOM		WIND		SPEED		WEATHER		DOMINANT WAVES	
34 59.3N		133 00.3W		3/30/76		0625 GMT		5142M		180		2KT				310 4 10	
Z	T	S	O2	PO4	SIC3	NO2	NO3	DT	Z	T	S	O2	SIGT	DT	DD		
0	15.13	33.519	5.95					313.5	0	15.13	33.519	5.95	24.624	313.5	0.000		
9	14.72	33.534	5.94					304.0	10	14.72	33.536	5.94	24.925	303.9	0.031		
19	14.69	33.540	5.95					302.9	20	14.70	33.543	5.95	24.935	302.9	0.061		
31	14.76	33.562	5.94					302.7	30	14.75	33.562	5.94	24.937	302.8	0.092		
50	14.70	33.556	5.93					302.0	50	14.70	33.556	5.93	24.945	302.0	0.152		
76	14.77	33.585	5.93					301.3	75	14.77	33.585	5.93	24.952	301.3	0.226		
100	14.76	33.649	5.89					296.4	100	14.76	33.649	5.89	25.004	296.4	0.303		
125	13.38	33.672	5.87					267.3	125	13.98	33.672	5.87	25.310	267.3	0.375		
151	11.79	33.616	5.56					242.0	150	11.85	33.619	5.57	25.566	242.9	0.439		
200	9.74	33.793	5.12					194.5	200	9.74	33.793	5.12	26.075	194.5	0.551		
250	8.64	33.937	4.57					167.1	250	8.64	33.937	4.57	26.364	167.1	0.643		
296	8.03	34.008	4.59					153.0	300	8.00	34.009	4.57	26.517	152.6	0.725		
397	6.46	33.962	2.94					135.6	400	6.42	33.963	2.90	26.702	135.0	0.875		
499	5.30	34.004	1.73					118.7	500	5.30	34.004	1.72	26.875	118.6	1.007		
598	4.95	34.123	0.63					105.9	600	4.94	34.126	0.82	27.011	105.7	1.125		
695	4.39	34.003	0.48						700	4.37	34.201	0.47	27.133	94.1	1.232		
793	4.15	34.289	0.31					85.1	800	4.13	34.295	0.31	27.233	84.6	1.328		
890	3.93	34.350	0.30					78.4	1000	3.64	34.413	0.35	27.378	70.9	1.499		
987	3.68	34.407	0.33					71.7	1200	3.11	34.495	0.65	27.494	59.9	1.646		
1183	3.15	34.488	0.63					60.7									

11U						INDOPAC LEG I						12SU									
LATITUDE		LONGITUDE		MO/DAY/YR		START TIME		LATITUDE		LONGITUDE		MO/DAY/YR		START TIME							
35 01.2N		132 04.3W		03/29/76		1908 GMT		34 59.3N		133 00.3W		03/30/76		0638 GMT							
Z	T	S	SIGMA T	DT	DD							Z	T	S	SIGMA T	DT	DD				
0	14.84	33.50	24.872	308.9	0.000							0	14.83	33.52	24.890	307.3	0.000				
10	14.82	33.51	24.884	307.6	0.031							10	14.74	33.53	24.917	304.7	0.031				
20	14.82	33.52	24.892	307.0	0.062							20	14.67	33.54	24.939	302.5	0.061				
30	14.84	33.54	24.903	306.0	0.092							30	14.70	33.56	24.948	301.7	0.091				
40	14.83	33.55	24.913	305.1	0.123							40	14.70	33.56	24.948	301.7	0.122				
50	14.83	33.55	24.913	305.1	0.154							50	14.66	33.55	24.949	301.6	0.152				
75	14.64	33.75	25.107	286.5	0.228							75	14.65	33.56	24.959	300.6	0.228				
100	13.16	33.57	25.275	270.6	0.296							100	14.72	33.59	24.967	299.9	0.303				
125	11.26	33.48	25.568	242.8	0.363							125	14.03	33.63	25.144	283.1	0.377				
150	9.98	33.49	25.799	220.6	0.422							150	12.04	33.53	25.462	252.8	0.445				
175	9.44	33.72	26.068	195.3	0.475							175	10.91	33.62	25.739	226.5	0.506				
200	8.86	33.81	26.231	179.8	0.522							200	9.68	33.73	26.036	198.3	0.560				
225	8.51	33.91	26.363	167.2	0.567							225	9.31	33.91	26.237	179.2	0.608				
250	8.04	33.96	26.473	156.7	0.606							250	8.81	33.92	26.324	170.8	0.653				
275	7.67	33.97	26.536	150.8	0.648							275	8.34	34.00	26.460	158.0	0.695				
300	7.33	33.97	26.584	146.2	0.686							300	7.91	33.99	26.516	152.6	0.735				
350	6.59	33.98	26.693	135.8	0.759							350	6.99	33.94	26.608	143.9	0.812				
400	6.13	34.03	26.792	126.4	0.827							400	6.21	33.94	26.711	134.1	0.884				
450	5.74	34.06	26.865	119.5	0.891							450	5.65	33.97	26.805	125.2	0.951				
500	5.46	34.12	26.947	111.0	0.952							500	5.22	34.00	26.880	118.1	1.015				
550	5.13	34.16	27.017	105.1	1.009							550	5.00	34.06	26.953	111.2	1.075				
600	4.70	34.16	27.066	100.5	1.064							600	4.77	34.11	27.019	105.0	1.132				
650	4.68	34.23	27.124	95.0	1.116							650	4.54	34.16	27.084	98.8	1.187				
700	4.27	34.23	27.168	90.8	1.166							700	4.32	34.21	27.147	92.8	1.238				
750	4.17	34.28	27.219	86.0	1.213							750	4.20	34.25	27.192	88.6	1.286				
800	4.04	34.31	27.256	82.5	1.259							800	4.10	34.30	27.242	83.8	1.333				
850	3.91	34.35	27.301	78.2	1.303							850	3.98	34.32	27.270	81.1	1.378				
900	3.64	34.38	27.332	75.2	1.345							900	3.87	34.36	27.313	77.0	1.421				
950	3.75	34.41	27.365	72.1	1.386							950	3.72	34.39	27.352	73.3	1.463				
1000	3.61	34.43	27.395	69.3	1.425							1000	3.59	34.41	27.381	70.6	1.503				
1100	3.40	34.47	27.447	64.3	1.500							1100	3.27	34.46	27.451	63.9	1.578				
1200	3.19	34.50	27.491	60.2	1.571							1200	3.09	34.49	27.492	60.1	1.648				
1300	2.99	34.52	27.525	56.9	1.638																
1400	2.82	34.53	27.549	54.7	1.703																
1500	2.65	34.55	27.580	51.8	1.765																
1600	2.483	34.570	27.610	48.9	1.824																
1700	2.314	34.583	27.634	46.6	1.881																
1800	2.172	34.598	27.658	44.4	1.935																
1900	2.083	34.609	27.674	42.8	1.987																
2000	1.992	34.617	27.688	41.6	2.036																
2100	1.911	34.626	27.701	40.3	2.088																
2200	1.855	34.634	27.712	39.3	2.135																
2300	1.814	34.639	27.719	38.6	2.184																
2400	1.766	34.645	27.728	37.0	2.232																
2500	1.733	34.649	27.733	37.0	2.278																
2600	1.694	34.654	27.740	37.0	2.325																
2700	1.658	34.658	27.746	36.0	2.371																
2800	1.623	34.662	27.752	35.5	2.416																
2900	1.599	34.664	27.755	35.2	2.461																
3000	1.579	34.666	27.760	34.7	2.506																
3100	1.566	34.669	27.762	34.5	2.551																
3200	1.537	34.673	27.767	34.0	2.595																
3300	1.520	34.675	27.770	33.8	2.640																
3400	1.514	34.677	27.772	33.5	2.684																
3500	1.495	34.679	27.775	33.3	2.728																
3600	1.491	34.681	27.777	33.1	2.772																
3700	1.487	34.680	27.776	33.2	2.817																
3800	1.486	34.682	27.778	33.0	2.862																
3900	1.487	34.684	27.779	32.9	2.906																
4000	1.490	34.685	27.780	32.8	2.951																
4100	1.495	34.684	27.779	32.9	2.996																
4200	1.500	34.685	27.779	32.9	3.042																
4300	1.507	34.686	27.780	32.9	3.088																
4400	1.516	34.688	27.780	32.6	3.134																
4500	1.526	34.687	27.779	32.9	3.181																
4600	1.535	34.687	27.778	33.0	3.228																
4700	1.547	34.687	27.777	33.0	3.275																

RV THOMAS WASHINGTON

INDOPAC LEG 1

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LATITUDE 34 59.2N			LONGITUDE 134 02. W		MO/DAY/YR 3/30/76		MESSENGER 1312 1616		TIME GMT	BOTTOM 5279M	WIND 250	SPEED 13KT	WEATHER 2	DOMINANT WAVES 240 3 4		
Z	T	S	Q2	PC4	SIO3	N02	N03	DT	Z	T	S	Q2	SIGT	DT	DD	
U	15.22	33.72	5.81	0.22	3.7	0.00	0.0	300.7	0	15.22	33.72	5.81	24.959	300.7	0.000	
10	15.22	33.72	5.84	0.23	3.7	0.00	0.0	300.7	10	15.22	33.72	5.84	24.959	300.7	0.030	
20	15.22	33.72	5.84	0.22	3.6	0.00	0.0	300.7	20	15.22	33.72	5.84	24.959	300.7	0.060	
31	15.23	33.72	5.84	0.22	3.6	0.00	0.0	300.9	30	15.23	33.72	5.84	24.957	300.9	0.090	
50	15.21	33.72	5.83	0.23	3.6	0.00	0.0	300.5	50	15.21	33.72	5.83	24.961	300.5	0.151	
76	15.18	33.72	5.84	0.23	3.6	0.00	0.0	299.9	75	15.18	33.72	5.84	24.967	299.9	0.226	
90	15.20	33.72	5.83	0.22	3.6	0.00	0.0	300.3	100	15.19	33.72	5.82	24.965	300.1	0.302	
100	15.19	33.72	5.480	0.28	3.5	0.00	0.0	300.1	125	15.14	33.98	5.72	25.043	292.7	0.377	
111	15.37	33.78	5.80	0.28	3.8	0.00	0.0	299.5	150	14.10	33.76	5.60	25.226	275.2	0.449	
125	15.74	33.98	5.72	0.31	3.6	0.00	0.0	292.7	200	10.80	33.64	5.24	25.770	223.1	0.575	
151	14.00	33.74	5.80	0.81	3.6	0.04	0.0	274.4	250	9.23	33.69	4.46	26.234	179.4	0.678	
200	10.80	33.64	5.24	0.83	9.7	0.06	7.6	223.1	300	8.16	34.01	4.24	26.495	154.7	0.764	
250	9.23	33.89	4.46	1.36	21.0	0.00	17.3	179.4	400	6.62	34.01	2.43	26.713	133.9	0.914	
300	8.16	34.01	4.24	1.68	30.2	0.00	21.2	154.7	500	5.68	34.06	1.39	26.873	118.8	1.046	
399	6.63	34.01	2.44	2.43	53.9	0.00	31.9	134.1	600	5.00	34.14	0.76	27.018	105.0	1.165	
498	5.70	34.06	1.41	2.88	71.7	0.00	37.8	119.1	700	4.64	34.24	0.37	27.138	93.6	1.271	
598	5.01	34.14	0.77	3.13	88.9	0.00	41.2	105.3	800	4.38	34.34	0.24	27.240	84.0	1.367	
696	4.65	34.24	0.38	3.25	102.4	0.00	42.9	93.9	1000	3.78	34.45	0.41	27.395	69.3	1.537	
795	4.40	34.33	0.24	3.32	112.6	0.00	43.7	84.6	1200	3.52	34.50	0.80	27.475	61.7	1.685	
839A	4.25	34.379	0.25	3.23	117.5	0.00	42.9	79.4	1500	2.75	34.55	1.04	27.573	52.5	1.884	
993	3.80	34.45	0.34	3.25	124.2	0.00	44.4	69.6	1750	2.55	34.59	1.31	27.636	46.4	2.030	
1037A	3.69	34.460	0.33	3.29	131.5	0.02	43.4	67.8	2000	2.03	34.62	1.62	27.684	41.9	2.164	
1536A	2.69	34.558	1.05	3.13	157.5	0.00	42.9	51.5	2250	1.84	34.63	1.90	27.710	39.0	2.287	
2032A	2.00	34.620	1.66	2.98	177.2	0.00	41.4	41.4	2500	1.73	34.65	2.17	27.733	37.1	2.405	
2529A	1.72	34.651	2.20	2.87	181.6	0.00	40.0	37.0	2750	1.64	34.66	2.42	27.746	35.8	2.520	
3025A	1.57	34.666	2.69	2.76	180.2	0.00	39.1	34.8	3000	1.58	34.67	2.67	27.758	34.9	2.633	
3519A	1.50	34.674	3.18	2.64	175.3	0.00	38.2	33.7	3250	1.53	34.67	2.93	27.764	34.2	2.745	
4015A	1.49	34.682	3.39	2.61	171.9	0.00	37.5	33.0	3500	1.50	34.67	3.16	27.770	33.7	2.857	
4511A	1.523	34.687	3.57	2.58	165.9	0.00	36.9	32.9	3750	1.50	34.68	3.30	27.774	33.3	2.969	
5006A	1.581	34.691	3.77	2.58	163.0	0.00	36.4	33.0	4000	1.49	34.68	3.39	27.777	33.0	3.082	
5106A	1.593	34.690	3.66	2.54	162.0	0.00	36.3	33.1	4250	1.51	34.69	3.48	27.778	33.0	3.196	
									4500	1.52	34.69	3.57	27.779	32.9	3.311	
									4750	1.55	34.69	3.64	27.779	32.9	3.430	
									5000	1.58	34.69	3.77	27.778	33.0	3.550	

RV THOMAS WASHINGTON

INDOPAC LEG 1

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LATITUDE 34 58.7N		LONGITUDE 134 59. W		MO/DAY/YR 3/30/76		MESSENGER 2210 GMT		TIME	BOTTOM 5195M	WIND 350	SPEED 29KT	WEATHER 2	DOMINANT WAVES 340 11 6		
Z	T	S	Q2	PC4	SIO3	N02	N03	DT	Z	T	S	Q2	SIGT	DT	DD
2	14.91	33.541	5.94					307.4	0	14.91	33.541	5.94	24.889	307.4	0.000
12	14.90	33.541	5.91					307.2	10	14.90	33.543	5.91	24.890	307.2	0.031
22	14.89	33.541	5.92					307.0	20	14.89	33.543	5.92	24.892	307.0	0.061
32	14.93	33.555	5.91					306.7	30	14.92	33.553	5.91	24.894	306.8	0.092
52	15.00	33.609	5.91					304.3	50	14.99	33.604	5.91	24.917	304.6	0.154
77	15.07	33.677	5.89					300.7	75	15.07	33.674	5.88	24.956	301.0	0.230
101	15.07	33.700	5.87					299.0	100	15.07	33.701	5.87	24.975	299.1	0.305
126	14.33	33.704	5.87					283.6	125	14.38	33.709	5.87	25.129	284.5	0.379
151	11.87	33.418	5.80					258.0	150	11.97	33.430	5.81	25.396	259.1	0.448
202	10.70	33.730	5.17					214.8	200	10.75	33.721	5.20	25.845	216.4	0.569
251	9.40	34.022	4.86					173.2	250	9.49	34.019	4.87	26.292	173.9	0.669
300	8.16	33.983	3.50					156.7	300	8.16	33.983	3.50	26.473	156.7	0.754
398	6.67	33.977	3.05					137.1	400	6.64	33.979	3.03	26.684	136.7	0.906
496	5.40	34.009	1.75					119.4	500	5.36	34.013	1.71	26.874	118.7	1.039
594	4.58	34.110	0.90					103.0	600	4.57	34.121	0.85	27.048	102.1	1.156
693	4.40	34.250	0.32					91.2	700	4.44	34.257	0.31	27.171	90.6	1.259
791	4.17	34.318	0.22					83.1	800	4.16	34.327	0.22	27.257	82.4	1.352
889	4.02	34.399	0.24					75.6	1000	3.70	34.443	0.44	27.396	69.0	1.519
989	3.73	34.441	0.43					69.6	1200	3.17	34.506	0.64	27.498	59.6	1.665
1188	3.20	34.502	0.63					60.1							

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LATITUDE		LONGITUDE		MO/DAY/YR		START TIME		LATITUDE		LONGITUDE		MO/DAY/YR		START TIME			
34 59.2N		134 02. W		03/30/76		1150 GMT		34 58.7N		134 59. W		03/30/76		2130 GMT			
Z	T	S	SIGMA T	DT	DO	Z	T	S	SIGMA T	DT	DO	Z	T	S	SIGMA T	DT	DO
0	15.18	33.69	24.944	302.1	0.000	0	14.89	33.55	24.900	306.3	0.000	0	14.89	33.55	24.900	306.3	0.000
10	15.18	33.70	24.952	301.3	0.030	10	14.89	33.55	24.900	306.3	0.031	10	14.89	33.55	24.900	306.3	0.031
20	15.16	33.70	24.956	300.9	0.060	20	14.90	33.55	24.898	306.5	0.061	20	14.90	33.55	24.898	306.5	0.061
30	15.14	33.70	24.961	300.5	0.090	30	14.91	33.56	24.905	306.0	0.092	30	14.91	33.56	24.905	306.0	0.092
40	15.14	33.70	24.961	300.5	0.121	40	14.95	33.59	24.918	304.6	0.123	40	14.95	33.59	24.918	304.6	0.123
50	15.14	33.70	24.961	300.5	0.151	50	15.01	33.65	24.951	301.5	0.153	50	15.01	33.65	24.951	301.5	0.153
75	15.14	33.70	24.961	300.5	0.226	75	15.08	33.71	24.981	298.5	0.229	75	15.08	33.71	24.981	298.5	0.229
100	15.17	33.72	24.970	299.7	0.302	100	15.03	33.72	25.000	296.7	0.304	100	15.03	33.72	25.000	296.7	0.304
125	15.67	33.99	25.066	290.5	0.377	125	13.67	33.56	25.164	281.1	0.377	125	13.67	33.56	25.164	281.1	0.377
150	14.88	33.84	25.125	284.9	0.449	150	11.84	33.53	25.500	249.2	0.444	150	11.84	33.53	25.500	249.2	0.444
175	12.96	33.67	25.392	259.4	0.519	175	11.99	33.76	25.649	235.0	0.505	175	11.99	33.76	25.649	235.0	0.505
200	11.08	33.62	25.709	229.4	0.581	200	10.53	33.70	25.864	214.2	0.562	200	10.53	33.70	25.864	214.2	0.562
225	9.91	33.78	26.036	198.2	0.635	225	9.89	33.95	26.172	185.3	0.613	225	9.89	33.95	26.172	185.3	0.613
250	9.21	33.86	26.214	181.3	0.684	250	9.21	33.99	26.315	171.7	0.659	250	9.21	33.99	26.315	171.7	0.659
275	8.64	33.96	26.382	165.4	0.729	275	8.49	33.99	26.449	160.9	0.702	275	8.49	33.99	26.449	160.9	0.702
300	8.03	33.97	26.483	155.8	0.770	300	8.06	34.00	26.502	154.0	0.743	300	8.06	34.00	26.502	154.0	0.743
350	7.21	33.97	26.601	144.6	0.848	350	7.29	33.99	26.605	144.2	0.820	350	7.29	33.99	26.605	144.2	0.820
400	6.48	33.99	26.716	133.7	0.920	400	6.56	33.97	26.689	136.2	0.893	400	6.56	33.97	26.689	136.2	0.893
450	5.97	34.02	26.805	125.2	0.988	450	5.86	33.98	26.787	126.9	0.961	450	5.86	33.98	26.787	126.9	0.961
500	5.50	34.05	26.886	117.5	1.051	500	5.28	34.01	26.881	118.0	1.025	500	5.28	34.01	26.881	118.0	1.025
550	5.12	34.09	26.963	110.2	1.111	550	5.02	34.09	26.975	109.1	1.085	550	5.02	34.09	26.975	109.1	1.085
600	4.90	34.15	27.036	103.4	1.168	600	4.52	34.12	27.054	101.6	1.141	600	4.52	34.12	27.054	101.6	1.141
650	4.72	34.19	27.088	98.4	1.221	650	4.55	34.21	27.122	95.1	1.193	650	4.55	34.21	27.122	95.1	1.193
700	4.55	34.24	27.146	92.9	1.273	700	4.43	34.25	27.167	90.9	1.243	700	4.43	34.25	27.167	90.9	1.243
750	4.44	34.29	27.198	88.0	1.322	750	4.32	34.29	27.211	86.8	1.291	750	4.32	34.29	27.211	86.8	1.291
800	4.31	34.33	27.243	83.7	1.368	800	4.14	34.32	27.253	82.7	1.337	800	4.14	34.32	27.253	82.7	1.337
850	4.17	34.36	27.282	80.0	1.413	850	4.14	34.38	27.301	78.2	1.381	850	4.14	34.38	27.301	78.2	1.381
900	4.04	34.39	27.319	76.4	1.456	900	3.99	34.40	27.333	75.2	1.423	900	3.99	34.40	27.333	75.2	1.423
950	3.93	34.41	27.347	73.9	1.498	950	3.82	34.42	27.366	72.1	1.464	950	3.82	34.42	27.366	72.1	1.464
1000	3.79	34.43	27.377	71.0	1.538	1000	3.70	34.45	27.402	68.6	1.503	1000	3.70	34.45	27.402	68.6	1.503
1100	3.52	34.47	27.435	65.4	1.615	1100	3.37	34.48	27.458	63.3	1.578	1100	3.37	34.48	27.458	63.3	1.578
1200	3.27	34.49	27.475	61.7	1.688	1200	3.17	34.51	27.501	59.3	1.648	1200	3.17	34.51	27.501	59.3	1.648
1300	3.08	34.51	27.509	58.5	1.757												
1400	2.91	34.52	27.533	56.2	1.823												
1500	2.75	34.54	27.563	53.4	1.887												
1600	2.598	34.558	27.590	50.8	1.948												
1700	2.408	34.573	27.619	48.1	2.007												
1800	2.257	34.585	27.641	46.0	2.063												
1900	2.128	34.598	27.662	44.0	2.117												
2000	2.025	34.609	27.679	42.4	2.169												
2100	1.946	34.616	27.690	41.3	2.220												
2200	1.890	34.627	27.704	40.0	2.270												
2300	1.829	34.633	27.713	39.1	2.318												
2400	1.776	34.638	27.721	38.4	2.366												
2500	1.728	34.643	27.729	37.7	2.414												
2600	1.690	34.647	27.735	37.1	2.460												
2700	1.655	34.651	27.741	36.5	2.507												
2800	1.617	34.655	27.747	36.0	2.552												
2900	1.592	34.659	27.752	35.5	2.598												
3000	1.575	34.661	27.755	35.2	2.643												
3100	1.564	34.663	27.757	35.0	2.688												
3200	1.558	34.667	27.762	34.5	2.733												
3300	1.523	34.670	27.766	34.2	2.778												
3400	1.509	34.672	27.768	33.9	2.823												
3500	1.497	34.676	27.772	33.5	2.867												
3600	1.495	34.678	27.774	33.4	2.912												
3700	1.490	34.679	27.775	33.3	2.956												
3800	1.486	34.684	27.779	32.9	3.001												
3900	1.487	34.683	27.779	32.9	3.046												
4000	1.491	34.683	27.778	33.0	3.091												
4100	1.492	34.685	27.780	32.8	3.136												
4200	1.495	34.685	27.780	32.8	3.182												
4300	1.501	34.685	27.779	32.9	3.227												
4400	1.507	34.687	27.780	32.6	3.273												
4500	1.521	34.687	27.779	32.9	3.320												
4600	1.527	34.688	27.780	32.8	3.367												
4700	1.538	34.689	27.780	32.6	3.414												
4800	1.547	34.688	27.778	33.0	3.462												
4900	1.558	34.688	27.777	33.0	3.510												
5000	1.571	34.689	27.777	33.1	3.558												
5100	1.584	34.689	27.776	33.2	3.607												
5146	1.588	34.689	27.776	33.2	3.630												

RV THOMAS WASHINGTON

INDOPAC LEG I

15

	LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	TIME	POTOM	WIND	SPEED	WEATHER	DOMINANT WAVES					
	35 00.4N	136 02.8W	3/31/76	0845	GMT	4965M	010	25KT							
Z	T	S	02	P04	S103	N02	N03	DT	Z	T	S	02	SIGT	DT	DD
1	15.13	33.700	5.97	0.16		0.00	0.0	300.3	0	15.13	33.700	5.97	24.963	300.3	0.000
12	15.15	33.699	5.87	0.16		0.00	0.0	300.6	10	15.15	33.701	5.88	24.959	300.7	0.030
22	15.13	33.705	5.88	0.16		0.00	0.0	299.9	20	15.13	33.704	5.88	24.965	300.1	0.060
31	15.17	33.701	5.87	0.22		0.00	0.0	301.0	30	15.17	33.703	5.87	24.956	300.9	0.090
50	15.14	33.701	5.92	0.23		0.06	0.0	300.4	50	15.14	33.701	5.92	24.962	300.4	0.151
75	15.18	33.700	5.87	0.23		0.05	0.0	301.3	75	15.18	33.700	5.87	24.952	301.3	0.226
90	15.08	33.694	5.87	0.23		0.00	0.0	299.7	100	15.00	33.715	5.86	25.003	296.5	0.302
100	15.00	33.715	5.86	0.22		0.00	0.0	296.5	125	13.59	33.606	5.91	25.214	276.4	0.374
110	15.18	33.855	5.82	0.19	3.6	0.00	0.0	290.0	150	12.64	33.633	5.82	25.424	256.4	0.441
124	13.65	33.609	5.91	0.22	3.8	0.00	0.0	277.1	200	10.04	33.810	5.13	26.036	198.2	0.557
149	12.70	33.629	5.83	0.26	4.2	0.00	0.4	257.6	250	9.00	33.991	4.77	26.348	168.6	0.651
197	10.13	33.794	5.15	0.82	12.5	0.00	10.4	200.7	300	8.00	34.016	4.17	26.522	152.0	0.734
246	9.09	33.984	4.81	1.18	21.3	0.00	16.4	170.3	400	6.51	33.990	2.70	26.711	134.2	0.882
294	8.10	34.015	4.26	1.55	31.2	0.00	21.7	153.5	500	5.16	34.011	1.78	26.895	116.7	1.013
392	6.64	33.991	2.79	2.18	51.7	0.00	30.8	135.6	600	4.51	34.113	1.02	27.050	102.0	1.128
489	5.27	34.002	1.87	2.63	73.8	0.00	37.3	118.5	700	4.20	34.233	0.51	27.177	89.9	1.230
588	4.56	34.098	1.10	2.90	93.9	0.00	41.3	103.7	800	4.02	34.329	0.39	27.273	80.9	1.323
684	4.24	34.214	0.55	3.04	106.1	0.00	43.4	91.7	1000	3.70	34.438	0.41	27.392	69.5	1.489
782	4.05	34.315	0.39	3.15	118.0	0.00	44.0	82.2							
979	3.73	34.427	0.41	3.15	128.5	0.00	44.2	70.7							

RV THOMAS WASHINGTON

INDOPAC LEG I

16

	LATITUDE	LONGITUDE	MO/DAY/YR		MESSENGER		TIME	POTOM	WIND	SPEED	WEATHER	DOMINANT WAVES			
	34 59.1N	137 00.7W	3/31/76		1538 GMT			4797M	020	12KT	1	350 8 8			
Z	T	S	02	P04	S103	N02	N03	DT	Z	T	S	02	SIGT	DT	DD
0	15.53	33.909	5.86					293.4	0	15.53	33.909	5.86	25.035	293.4	0.000
10	15.58	33.909	5.82					294.5	10	15.58	33.909	5.82	25.024	294.5	0.029
20	15.55	33.904	5.82					294.2	20	15.55	33.904	5.82	25.027	294.2	0.059
31	15.58	33.907	5.82					294.6	30	15.58	33.908	5.82	25.023	294.6	0.088
51	15.63	33.921	5.80					294.6	50	15.63	33.922	5.80	25.022	294.6	0.148
77	15.65	33.926	5.80					294.7	75	15.65	33.927	5.80	25.021	294.7	0.222
101	16.46	34.196	5.69					292.6	100	16.43	34.187	5.69	25.043	292.6	0.296
127	15.93	34.210	5.68					280.0	125	15.97	34.203	5.68	25.161	281.4	0.368
152	15.33	33.864	5.69					252.2	150	13.56	33.893	5.69	25.442	254.7	0.436
202	10.53	33.843	5.22					203.6	200	10.59	33.836	5.24	25.962	205.3	0.553
252	9.49	34.022	5.02					173.7	250	9.51	34.016	5.03	26.286	174.5	0.651
301	8.80	34.052	4.17					160.2	300	8.61	34.063	4.19	26.435	160.3	0.737
401	7.16	33.968	4.05					144.1	400	7.18	33.971	4.05	26.605	144.2	0.895
500	5.51	33.970	2.33					123.6	500	5.51	33.970	2.33	26.822	123.6	1.035
599	4.70	34.051	1.25					108.6	600	4.69	34.054	1.24	26.982	108.5	1.157
698	4.28	34.175	0.64					95.0	700	4.27	34.178	0.63	27.126	94.8	1.265
798	3.90	34.256	0.42					85.2	800	3.89	34.259	0.42	27.230	85.0	1.362
898	3.63	34.332	0.39					76.9	1000	3.40	34.391	0.29	27.384	70.3	1.532
1000	3.40	34.391	0.29					70.3	1200	3.09	34.476	0.49	27.481	61.1	1.679
1205	3.08	34.477	0.49					61.0							

150						INDOPAC LEG I						16									
LATITUDE		LONGITUDE		MO/DAY/YR		START TIME		LATITUDE		LONGITUDE		MO/DAY/YR		START TIME							
35 00.4N		136 02.8W		03/31/76		0423 GMT		34 59.1N		137 00.7W		03/31/76		1428 GMT							
Z	T	S	SIGMA T	DT	DD							Z	T	S	SIGMA T	DT	DD				
0	14.93	33.62	24.945	302.0	0.000							0	15.52	33.90	25.030	293.9	0.000				
10	14.93	33.62	24.945	302.0	0.030							10	15.54	33.91	25.034	293.5	0.029				
20	14.91	33.61	24.942	302.3	0.060							20	15.55	33.91	25.031	293.6	0.059				
30	14.90	33.61	24.944	302.1	0.091							30	15.57	33.91	25.027	294.2	0.086				
40	14.90	33.61	24.944	302.1	0.121							40	15.57	33.91	25.027	294.2	0.118				
50	14.92	33.62	24.947	301.8	0.151							50	15.58	33.91	25.025	294.4	0.147				
75	15.42	33.84	25.007	296.1	0.227							75	15.68	33.95	25.033	293.6	0.221				
100	15.50	33.90	25.035	293.4	0.301							100	16.40	34.22	25.076	289.5	0.295				
125	12.56	33.58	25.401	258.6	0.371							125	15.47	34.15	25.235	274.5	0.366				
150	11.38	33.65	25.678	232.3	0.433							150	12.65	33.75	25.515	247.8	0.432				
175	10.48	33.80	25.954	206.0	0.489							175	11.04	33.78	25.840	216.9	0.491				
200	9.72	33.85	26.123	190.0	0.539							200	10.11	33.89	26.088	193.3	0.544				
225	9.23	33.95	26.281	175.0	0.586							225	9.56	33.98	26.251	177.9	0.591				
250	8.87	34.00	26.377	165.8	0.629							250	9.28	34.05	26.351	168.3	0.636				
275	8.35	34.01	26.466	157.4	0.671							275	9.03	34.07	26.407	163.0	0.678				
300	7.87	34.00	26.530	151.3	0.711							300	8.69	34.06	26.453	158.7	0.720				
350	7.12	33.98	26.621	142.7	0.787							350	7.82	34.00	26.537	150.6	0.800				
400	6.33	33.97	26.720	133.3	0.859							400	6.99	33.96	26.624	142.5	0.876				
450	5.58	33.97	26.814	124.4	0.926							450	6.19	33.95	26.722	133.1	0.948				
500	4.97	34.06	26.909	115.4	0.988							500	5.48	33.97	26.826	123.3	1.015				
550	4.59	34.05	26.991	107.6	1.047							550	4.89	33.99	26.910	115.3	1.078				
600	4.44	34.09	27.039	103.0	1.102							600	4.67	34.05	26.982	108.4	1.137				
650	4.29	34.15	27.103	97.0	1.155							650	4.38	34.11	27.062	100.9	1.192				
700	4.13	34.20	27.159	91.6	1.206							700	4.26	34.17	27.122	95.2	1.244				
750	4.11	34.26	27.209	86.9	1.253							750	4.04	34.22	27.185	89.2	1.294				
800	4.02	34.30	27.250	83.0	1.299							800	3.90	34.25	27.223	85.6	1.341				
850	3.93	34.35	27.299	78.4	1.343							850	3.75	34.29	27.270	81.2	1.386				
900	3.83	34.38	27.333	75.1	1.386							900	3.61	34.33	27.315	76.8	1.429				
950	3.68	34.41	27.372	71.5	1.426							950	3.48	34.36	27.352	73.4	1.470				
1000	3.53	34.44	27.411	67.8	1.465							1000	3.37	34.39	27.386	70.1	1.510				
1100	3.25	34.47	27.461	63.0	1.538							1100	3.22	34.44	27.440	65.0	1.585				
1200	3.04	34.50	27.505	58.9	1.607							1200	3.06	34.48	27.487	60.6	1.656				
1300	2.81	34.52	27.534	56.1	1.673																
1400	2.65	34.54	27.572	52.5	1.736																
1500	2.48	34.55	27.594	50.4	1.795																
1600	2.334	34.566	27.619	48.0	1.853																
1700	2.220	34.582	27.641	45.9	1.908																
1800	2.117	34.598	27.662	43.9	1.962																
1900	2.018	34.610	27.680	42.3	2.013																
2000	1.928	34.617	27.693	41.1	2.063																
2100	1.857	34.628	27.707	39.7	2.112																
2200	1.810	34.632	27.714	39.1	2.160																
2300	1.776	34.637	27.720	38.5	2.208																
2400	1.736	34.643	27.728	37.7	2.255																
2500	1.690	34.647	27.735	37.1	2.301																
2600	1.648	34.654	27.744	36.3	2.347																
2700	1.620	34.660	27.750	35.6	2.392																
2800	1.596	34.660	27.752	35.4	2.437																
2900	1.574	34.664	27.757	35.0	2.482																
3000	1.555	34.668	27.762	34.5	2.527																
3100	1.549	34.668	27.762	34.5	2.571																
3200	1.534	34.671	27.766	34.2	2.616																
3300	1.516	34.673	27.768	33.9	2.660																
3400	1.495	34.677	27.773	33.5	2.704																
3500	1.491	34.680	27.776	33.2	2.748																
3600	1.479	34.681	27.778	33.0	2.793																
3700	1.477	34.683	27.779	32.9	2.837																
3800	1.474	34.684	27.780	32.8	2.881																
3900	1.477	34.685	27.781	32.7	2.925																
4000	1.484	34.686	27.781	32.7	2.970																
4100	1.492	34.689	27.783	32.5	3.015																
4200	1.491	34.689	27.783	32.5	3.060																
4300	1.498	34.688	27.782	32.6	3.106																
4400	1.507	34.689	27.782	32.6	3.152																
4500	1.519	34.689	27.781	32.7	3.198																
4600	1.527	34.689	27.780	32.8	3.245																
4700	1.537	34.689	27.780	32.8	3.292																

RV THOMAS WASHINGTON										INDOPAC LEG 1									
LATITUDE		LONGITUDE		MO/DAY/YR		MESSENGER		TIME		BOTTOM		WIND		SPEED		WEATHER		DOMINANT WAVES	
35 00.3N		137 59. W		3/31/76		2230 0145		GMT		5219M		05U		7KT		2		350 8 8	
Z	T	S	02	P04	S103	N02	N03	DT	Z	T	S	02	SIGT	DT	DD				
1	15.93	33.97	5.79	0.08	4.2	0.00	0.0	297.5	0	15.93	33.97	5.79	24.992	297.5	0.000				
11	15.95	33.97	5.77	0.08	4.2	0.00	0.1	297.9	10	15.95	33.97	5.77	24.988	297.9	0.030				
31	16.10	34.03	5.78	0.07	3.9	0.00	0.1	296.9	20	16.02	34.00	5.77	24.991	297.6	0.060				
41	16.11	34.04	5.77	0.08	3.8	0.00	0.2	296.3	30	16.09	34.03	5.78	24.999	296.9	0.089				
50	16.16	34.05	5.76	0.11	3.8	0.00	0.2	296.6	50	16.16	34.05	5.76	25.001	296.6	0.149				
77	16.18	34.06	5.73	0.10	3.9	0.00	0.2	296.3	75	16.18	34.06	5.73	25.004	296.4	0.224				
101	16.30	34.11	5.72	0.09	3.8	0.00	0.2	295.3	100	16.30	34.11	5.72	25.014	295.3	0.298				
112	16.05	34.12	5.73	0.06	3.8	0.00	0.2	289.1	125	15.34	34.14	5.65	25.250	272.9	0.370				
122	15.60	34.16	5.67	0.06	3.9	0.00	0.3	276.6	150	12.93	33.47	5.48	25.549	244.6	0.436				
152	12.72	33.84	5.47	0.03	5.6	0.02	2.3	242.4	200	10.32	33.90	5.18	26.057	196.3	0.548				
201	10.29	33.90	5.17	0.85	13.0	0.03	11.4	195.5	250	9.59	34.06	4.78	26.308	172.4	0.642				
250	9.59	34.06	4.76	1.15	19.2	0.00	15.6	172.4	300	8.94	34.08	4.74	26.429	160.9	0.728				
301	8.93	34.08	4.74	1.32	24.4	0.00	18.5	160.8	400	7.16	33.97	3.70	26.609	143.8	0.867				
401	7.14	33.97	3.69	1.72	40.1	0.00	25.1	143.7	500	5.53	33.96	2.32	26.812	124.5	1.027				
499	5.54	33.96	2.33	2.57	67.2	0.00	36.2	124.7	600	4.62	34.02	1.43	26.966	109.9	1.150				
598	4.63	34.02	1.45	2.87	87.2	0.00	41.1	110.2	700	4.24	34.16	0.72	27.119	95.5	1.259				
697	4.25	34.16	0.74	3.15	105.9	0.00	44.4	95.8	800	4.07	34.27	0.32	27.223	85.6	1.356				
798	4.07	34.27	0.32	3.24	116.8	0.00	45.5	85.8	1000	3.59	34.39	0.27	27.366	72.0	1.529				
998	3.59	34.39	0.27	3.29	132.5	0.00	45.9	72.1	1200	3.17	34.48	0.53	27.477	61.5	1.679				
1124A	3.35	34.450	0.47	3.14	141.8	0.00	45.6	65.4	1500	2.62	34.55	0.97	27.581	51.7	1.875				
1200	3.17	34.48	0.53	3.26	144.9	0.00	45.5	61.5	1750	2.27	34.58	1.36	27.637	46.4	2.020				
1618A	2.45	34.562	1.17	3.02	166.3	0.00	44.2	49.3	2000	1.99	34.61	1.69	27.683	42.0	2.152				
2110A	1.89	34.620	1.83	2.96	179.4	0.00	41.8	40.6	2250	1.81	34.63	1.99	27.709	39.2	2.276				
2601A	1.67	34.648	2.35	2.83	182.1	0.00	40.8	36.9	2500	1.70	34.64	2.25	27.729	37.4	2.394				
3091A	1.53	34.665	2.80	2.66	178.1	0.00	39.2	34.6	2750	1.62	34.65	2.50	27.744	36.0	2.509				
3583A	1.49	34.676	3.15	2.61	174.8	0.00	38.1	33.5	3000	1.55	34.66	2.72	27.757	34.9	2.622				
4080A	1.496	34.684	3.37	2.53	170.7	0.00	37.4	32.9	3250	1.51	34.67	2.93	27.765	34.1	2.733				
4579A	1.526	34.684	3.49	2.53	165.7	0.00	37.1	33.1	3500	1.49	34.67	3.10	27.771	33.6	2.845				
4982A	1.579	34.687	3.54	2.50	162.9	0.00	36.8	33.3	3750	1.49	34.68	3.24	27.775	33.2	2.956				
5083A	1.586	34.683	3.69	2.54	162.7	0.00	36.8	33.6	4000	1.50	34.68	3.34	27.778	33.0	3.069				
									4250	1.51	34.68	3.42	27.778	33.0	3.183				
									4500	1.52	34.68	3.48	27.777	33.1	3.299				
									4750	1.55	34.69	3.51	27.776	33.2	3.417				
									5000	1.58	34.69	3.56	27.774	33.3	3.539				

RV THOMAS WASHINGTON										INDOPAC LEG 1						
LATITUDE		LONGITUDE		MO/DAY/YR		MESSENGER		TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES			
35 01.2N		139 00. W		4/ 1/76		0802 GMT			5252M	03U	5KT					
Z	T	S	02	P04	S103	N02	N03	DT	Z	T	S	02	SIGT	DT	DD	
1	15.93	33.992	5.77					295.9	0	15.93	33.992	5.77	25.009	295.9	0.000	
11	15.93	33.992	5.76					295.9	10	15.93	33.993	5.76	25.009	295.9	0.030	
22	16.01	34.018	5.77					295.7	20	15.99	34.013	5.77	25.010	295.7	0.059	
32	16.13	34.068	5.73					294.7	30	16.11	34.059	5.74	25.019	294.9	0.089	
52	16.16	34.082						294.3	50	16.16	34.082	5.73	25.025	294.3	0.148	
77	16.19	34.097	5.72					293.9	75	16.19	34.097	5.72	25.030	293.9	0.222	
102	16.05	34.209	5.67					282.6	100	16.06	34.194	5.67	25.133	284.0	0.295	
127	15.55	33.886	5.71					254.9	125	15.78	33.913	5.71	25.413	257.4	0.363	
152	11.85	33.843	5.43					226.4	150	11.96	33.842	5.46	25.717	228.5	0.425	
202	10.15	33.957	5.06					189.0	200	10.19	33.951	5.07	26.122	190.0	0.532	
252	9.58	34.094	4.91					169.7	250	9.60	34.091	4.91	26.330	170.3	0.624	
301	8.62	34.064	4.73					157.3	300	8.64	34.067	4.74	26.464	157.6	0.709	
402	6.68	33.964	3.59					138.2	400	6.72	33.967	3.62	26.665	138.5	0.862	
500	5.32	34.122	2.11						500	5.32	33.976	2.11	26.849	121.1	0.998	
600	4.57	34.068	1.13					106.0	600	4.57	34.068	1.13	27.008	106.0	1.117	
698	4.24	34.178	0.57					94.4	700	4.23	34.181	0.56	27.133	94.2	1.223	
798	3.89	34.264	0.33					84.5	800	3.89	34.266	0.33	27.237	84.3	1.319	
896	3.70	34.344	0.28					76.6	1000	3.49	34.399	0.30	27.381	70.6	1.489	
996	3.50	34.396	0.30					70.8	1200	3.01	34.478	0.46	27.490	60.3	1.636	
1194	3.02	34.476	0.46					60.5								

170						INDOPAC LEG 1						18					
LATITUDE	LONGITUDE	MO/DAY/YR	START TIME	LATITUDE	LONGITUDE	MO/DAY/YR	START TIME	LATITUDE	LONGITUDE	MO/DAY/YR	START TIME	LATITUDE	LONGITUDE	MO/DAY/YR	START TIME	LATITUDE	LONGITUDE
35 30.3N	137 59.4 W	03/31/76	2052 GMT	35 01.2N	134 00.4 W	04/01/76	0720 GMT	35 01.2N	134 00.4 W	04/01/76	0720 GMT	35 01.2N	134 00.4 W	04/01/76	0720 GMT	35 01.2N	134 00.4 W
Z	T	S	SIGMA T	DT	DO	Z	T	S	SIGMA T	DT	DO	Z	T	S	SIGMA T	DT	DO
0	16.11	33.95	24.938	302.0	0.000	0	15.85	33.97	25.010	295.8	0.000	0	15.85	33.97	25.010	295.8	0.000
10	16.10	34.04	25.007	296.1	0.030	10	15.85	33.98	25.014	295.0	0.030	10	15.85	33.98	25.014	295.0	0.030
20	16.09	34.06	25.025	294.4	0.060	20	15.97	34.02	25.021	294.7	0.059	20	15.97	34.02	25.021	294.7	0.059
30	16.09	34.06	25.025	294.4	0.089	30	16.11	34.07	25.028	294.1	0.089	30	16.11	34.07	25.028	294.1	0.089
40	16.09	34.06	25.025	294.4	0.119	40	16.14	34.08	25.029	294.0	0.118	40	16.14	34.08	25.029	294.0	0.118
50	16.08	34.06	25.027	294.2	0.148	50	16.15	34.08	25.026	294.2	0.148	50	16.15	34.08	25.026	294.2	0.148
75	16.04	34.05	25.028	294.0	0.222	75	16.19	34.11	25.040	292.9	0.222	75	16.19	34.11	25.040	292.9	0.222
100	16.27	34.15	25.052	291.7	0.296	100	15.58	34.11	25.178	279.8	0.294	100	15.58	34.11	25.178	279.8	0.294
125	15.87	34.20	25.182	279.4	0.368	125	13.23	33.85	25.477	251.4	0.361	125	13.23	33.85	25.477	251.4	0.361
150	13.30	33.69	25.494	249.6	0.435	150	11.75	33.84	25.757	224.8	0.421	150	11.75	33.84	25.757	224.8	0.421
175	11.47	33.43	25.801	220.6	0.495	175	10.92	33.94	25.986	203.0	0.476	175	10.92	33.94	25.986	203.0	0.476
200	10.34	33.40	26.056	190.3	0.548	200	10.13	33.94	26.124	189.9	0.526	200	10.13	33.94	26.124	189.9	0.526
225	9.94	34.01	26.211	181.7	0.597	225	9.87	34.03	26.238	179.1	0.573	225	9.87	34.03	26.238	179.1	0.573
250	9.60	34.06	26.306	172.6	0.642	250	9.53	34.08	26.333	170.0	0.618	250	9.53	34.08	26.333	170.0	0.618
275	9.20	34.10	26.403	163.4	0.685	275	9.15	34.06	26.395	164.1	0.661	275	9.15	34.06	26.395	164.1	0.661
300	8.67	34.05	26.448	159.1	0.727	300	8.78	34.07	26.446	159.3	0.703	300	8.78	34.07	26.446	159.3	0.703
350	7.87	34.01	26.538	150.0	0.807	350	7.78	34.02	26.559	148.6	0.783	350	7.78	34.02	26.559	148.6	0.783
400	7.20	33.97	26.602	144.5	0.884	400	6.73	33.96	26.659	139.1	0.857	400	6.73	33.96	26.659	139.1	0.857
450	6.33	33.95	26.704	134.0	0.957	450	5.91	33.95	26.757	129.6	0.927	450	5.91	33.95	26.757	129.6	0.927
500	5.60	33.96	26.803	125.4	1.025	500	5.34	33.98	26.850	120.9	0.993	500	5.34	33.98	26.850	120.9	0.993
550	5.08	33.98	26.881	115.1	1.089	550	4.84	34.02	26.940	112.5	1.054	550	4.84	34.02	26.940	112.5	1.054
600	4.62	34.02	26.964	110.1	1.149	600	4.54	34.07	27.012	105.5	1.112	600	4.54	34.07	27.012	105.5	1.112
650	4.38	34.07	27.030	103.9	1.206	650	4.31	34.13	27.085	98.7	1.166	650	4.31	34.13	27.085	98.7	1.166
700	4.21	34.13	27.095	97.7	1.259	700	4.20	34.18	27.136	93.6	1.217	700	4.20	34.18	27.136	93.6	1.217
750	4.13	34.20	27.159	91.0	1.310	750	3.96	34.22	27.191	88.6	1.266	750	3.96	34.22	27.191	88.6	1.266
800	4.01	34.24	27.203	87.4	1.354	800	3.80	34.26	27.233	84.7	1.312	800	3.80	34.26	27.233	84.7	1.312
850	3.96	34.30	27.256	82.4	1.404	850	3.78	34.31	27.282	79.9	1.357	850	3.78	34.31	27.282	79.9	1.357
900	3.79	34.33	27.297	78.5	1.448	900	3.67	34.34	27.317	76.6	1.400	900	3.67	34.34	27.317	76.6	1.400
950	3.60	34.36	27.340	74.5	1.490	950	3.61	34.38	27.355	73.1	1.441	950	3.61	34.38	27.355	73.1	1.441
1000	3.52	34.39	27.372	71.5	1.530	1000	3.40	34.40	27.383	70.5	1.481	1000	3.40	34.40	27.383	70.5	1.481
1100	3.32	34.44	27.431	65.9	1.607	1100	3.19	34.43	27.435	65.5	1.557	1100	3.19	34.43	27.435	65.5	1.557
1200	3.14	34.47	27.472	62.0	1.679	1200	3.01	34.47	27.484	60.9	1.628	1200	3.01	34.47	27.484	60.9	1.628
1300	2.97	34.50	27.511	58.3	1.748												
1400	2.75	34.52	27.547	54.9	1.813												
1500	2.57	34.54	27.578	51.9	1.875												
1600	2.441	34.559	27.605	49.4	1.935												
1700	2.285	34.576	27.631	46.9	1.991												
1800	2.149	34.589	27.653	44.9	2.046												
1900	2.062	34.599	27.668	43.4	2.099												
2000	1.985	34.610	27.683	42.0	2.150												
2100	1.921	34.617	27.693	41.0	2.200												
2200	1.850	34.625	27.705	39.9	2.250												
2300	1.801	34.630	27.713	39.2	2.296												
2400	1.746	34.639	27.724	38.1	2.346												
2500	1.708	34.642	27.729	37.6	2.393												
2600	1.673	34.646	27.735	37.0	2.439												
2700	1.634	34.651	27.742	36.4	2.485												
2800	1.605	34.656	27.746	35.8	2.531												
2900	1.578	34.661	27.754	35.2	2.576												
3000	1.556	34.662	27.757	35.0	2.621												
3100	1.537	34.667	27.762	34.5	2.666												
3200	1.521	34.668	27.764	34.3	2.710												
3300	1.503	34.675	27.771	33.7	2.755												
3400	1.497	34.674	27.771	33.7	2.799												
3500	1.491	34.677	27.773	33.4	2.843												
3600	1.485	34.676	27.773	33.5	2.887												
3700	1.482	34.680	27.777	33.1	2.932												
3800	1.484	34.679	27.776	33.2	2.977												
3900	1.486	34.681	27.777	33.1	3.021												
4000	1.487	34.681	27.777	33.1	3.067												
4100	1.492	34.682	27.777	33.0	3.112												
4200	1.494	34.682	27.777	33.1	3.158												
4300	1.501	34.682	27.777	33.1	3.204												
4400	1.510	34.683	27.777	33.1	3.250												
4500	1.517	34.683	27.776	33.1	3.297												
4600	1.529	34.684	27.776	33.2	3.344												
4700	1.537	34.684	27.776	33.2	3.392												
4800	1.548	34.684	27.775	33.3	3.440												
4900	1.561	34.684	27.774	33.4	3.488												
5000	1.574	34.684	27.773	33.5	3.537												
5107	1.587	34.683	27.771	33.6	3.590												

RV THOMAS WASHINGTON

INDOPAC LEG 1

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LATITUDE 34 50.7N		LONGITUDE 140 00.5W		MO/DAY/YR 4/ 1/76		MESSENGER 1803 GMT		TIME	POTOM #225M	WIND 190	SPEED 3KT	WEATHER 1	DOMINANT WAVES 49		
Z	T	S	O2	P04	SIG3	N02	N03	DT	Z	T	S	O2	SIGT	DT	DD
0	15.90	33.96	5.79	0.21	5.6	0.00	0.2	297.6	0	15.90	33.96	5.79	24.991	297.6	0.000
10	15.90	33.96	5.78	0.19	5.6	0.00	0.0	297.6	10	15.90	33.96	5.78	24.991	297.6	0.030
20	15.90	33.96	5.77	0.17	5.4	0.00	0.0	297.6	20	15.90	33.96	5.77	24.991	297.6	0.060
31	15.90	33.96	5.77	0.19	5.2	0.00	0.0	297.6	30	15.90	33.96	5.77	24.991	297.6	0.089
51	15.88	33.95	5.77	0.19	5.0	0.00	0.0	297.9	50	15.88	33.95	5.77	24.988	297.9	0.149
76	15.78	33.92	5.78	0.20	4.8	0.00	0.0	297.9	75	15.79	33.92	5.78	24.988	297.9	0.224
101	15.42	33.84	5.81	0.21	4.3	0.00	0.0	296.1	100	15.43	33.84	5.81	25.006	296.2	0.299
126	15.30	33.83	5.84	0.19	4.4	0.00	0.0	296.3	125	15.30	33.83	5.84	25.025	296.4	0.374
152	15.32	33.76	5.82	0.31	6.1	0.04	0.4	259.7	150	15.30	33.76	5.82	25.356	262.9	0.444
201	10.73	33.87	5.25	0.73	12.1	0.00	9.0	205.0	200	10.77	33.87	5.26	25.955	205.9	0.564
251	9.51	34.01	4.99	1.08	18.9	0.00	15.1	174.9	250	9.53	34.01	4.99	26.278	175.3	0.661
300	8.67	34.05	4.73	1.31	26.1	0.00	18.5	159.1	300	8.67	34.05	4.73	26.448	159.1	0.747
400	7.06	33.97	4.00	1.76	42.1	0.00	24.8	142.6	400	7.06	33.97	4.00	26.622	142.6	0.904
498	5.52	33.96	2.46	2.39	66.9	0.00	34.2	124.5	500	5.50	33.96	2.44	26.816	124.2	1.043
597	4.60	34.02	1.53	2.80	87.6	0.00	39.5	109.9	600	4.58	34.02	1.50	26.971	109.5	1.166
695	4.17	34.14	0.77	3.04	105.6	0.00	42.9	96.5	700	4.16	34.15	0.75	27.113	96.0	1.275
794	3.92	34.23	0.46	3.13	117.8	0.00	44.1	87.3	800	3.90	34.24	0.44	27.210	86.8	1.373
890	3.68	34.30	0.28	3.16	129.2	0.00	44.9	79.8	1000	3.47	34.38	0.26	27.365	72.2	1.547
989	3.49	34.37	0.25	3.22	136.5	0.00	44.8	72.7	1200	3.14	34.47	0.46	27.472	62.0	1.697
1166	3.16	34.46	0.45	3.19	146.7	0.00	45.0	62.9							

RV THOMAS WASHINGTON

INDOPAC LEG 1

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LATITUDE 35 00.5N		LONGITUDE 141 00.1W		MO/DAY/YR 4/ 2/76		MESSENGER 0003 GMT		TIME	POTOM 5320M	WIND 240	SPEED 16KT	WEATHER 2	DOMINANT WAVES 5		
Z	T	S	O2	P04	SIG3	N02	N03	DT	Z	T	S	O2	SIGT	DT	DD
1	16.23	33.997	5.73					302.0	0	16.23	33.997	5.73	24.944	302.0	0.000
11	16.22	33.992	5.72					302.2	10	16.22	33.994	5.72	24.943	302.2	0.030
32	15.96	33.938	5.76					300.5	20	16.11	33.969	5.74	24.950	301.5	0.060
51	16.05	33.959	5.74					300.9	30	15.98	33.944	5.76	24.959	300.6	0.091
77	16.08	33.975	5.73					300.4	50	16.04	33.958	5.74	24.957	300.8	0.151
101	16.12	33.988	5.72					300.3	75	16.08	33.975	5.73	24.961	300.4	0.227
115	16.13	33.991	5.77					300.3	100	16.12	33.989	5.72	24.963	300.3	0.302
122	16.18	34.023	5.180					299.0	125	15.94	34.002	5.73	25.013	295.5	0.378
152	12.95	33.776	5.010					251.5	150	13.22	33.793	5.61	25.434	255.5	0.448
202	11.11	33.993	5.18					202.3	200	11.13	33.981	5.20	25.978	203.7	0.564
251	10.05	34.110	5.00					176.0	250	10.07	34.110	5.00	26.266	176.4	0.662
300	9.20	34.095	4.81					163.8	300	9.20	34.095	4.81	26.399	163.8	0.750
398	7.58	34.004	4.16					147.0	400	7.54	34.003	4.13	26.579	146.7	0.911
495	5.92	33.956	2.80					129.4	500	5.84	33.955	2.73	26.769	128.6	1.055
591	4.69	33.972	1.64					114.5	600	4.63	33.986	1.54	26.935	112.9	1.182
687	4.26	34.126	0.79					98.5	700	4.22	34.142	0.72	27.104	96.9	1.293
784	4.00	34.223	0.40					88.6	800	3.96	34.238	0.36	27.206	87.2	1.392
880	3.80	34.296	0.23					81.0	1000	3.55	34.374	0.22	27.355	73.0	1.567
977	3.60	34.360	0.20					74.5	1200	3.41	34.483	0.48	27.476	61.7	1.718
1172	3.25	34.468	0.45					63.1							

RV THOMAS WASHINGTON

INDOPAC LEG 1

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LATITUDE		LONGITUDE		MO/DAY/YR		MESSENGER		TIME	POTOM	WIND	SPEED	WEATHER	DOMINANT WAVES		
34 58.9N		142 00.1W		4/ 2/76		0635		GMT	5383M	330	22KT				
Z	T	S	O2	P04	SIG3	N02	N03	DT	Z	T	S	O2	SIGT	DT	DD
1	16.10	33.952	5.75	0.20	5.8	0.00	0.0	302.5	0	16.10	33.952	5.75	24.940	302.5	0.000
10	16.09	33.951	5.75	0.15	5.7	0.00	0.0	302.3	10	16.09	33.951	5.75	24.941	302.3	0.030
31	16.08	33.950	5.74	0.16	5.6	0.00	0.0	302.2	20	16.09	33.952	5.74	24.942	302.3	0.061
51	16.11	33.948	5.75	0.17	5.6	0.00	0.0	303.0	30	16.08	33.951	5.74	24.943	302.2	0.091
77	16.25	34.006	5.72	0.16	5.5	0.00	0.0	301.8	50	16.11	33.949	5.75	24.935	303.0	0.152
101	16.32	34.034	5.80	0.15	5.4	0.00	0.0	301.3	75	16.24	34.002	5.72	24.945	301.9	0.228
112	16.37	34.046	5.76	0.16	5.3	0.00	0.0	301.5	100	16.32	34.034	5.80	24.952	301.3	0.304
122	16.36	33.864	5.70	0.13	5.2	0.00	0.0		125	16.06	34.138	5.71	25.091	288.1	0.378
152	12.52	33.718	5.79	0.37	7.1	0.01	1.4	247.7	150	12.83	33.750	5.78	25.478	251.3	0.447
202	10.86	34.006	5.18	0.88	12.6	0.03	10.4	197.1	200	10.93	34.001	5.21	26.031	198.7	0.561
251	10.11	34.112	5.06	1.07	17.5	0.03	14.0	176.9	250	10.12	34.112	5.06	26.259	177.1	0.657
300	9.39	34.114	4.90	1.20	22.1	0.01	16.9	165.3	300	9.39	34.114	4.90	26.383	165.3	0.746
398	7.60	34.008	4.35	1.65	35.5	0.00	23.2	147.0	400	7.57	34.008	4.32	26.579	146.7	0.908
495	6.08	33.960	2.93	2.28	56.9	0.00	32.2	131.0	500	6.01	33.961	2.86	26.753	130.2	1.053
592	4.87	33.997	1.79	2.82	80.5	0.00	39.2	114.5	600	4.80	34.005	1.72	26.932	113.2	1.181
688	4.25	34.097	1.03	3.05	99.6	0.00	43.6	100.6	700	4.21	34.114	0.94	27.081	99.0	1.293
786	4.04	34.218	0.45	3.25	113.6	0.00	45.6	89.4	800	4.00	34.230	0.41	27.196	88.2	1.394
892	3.74	34.292	0.25	3.29	125.8	0.00	45.6	80.9	1000	3.44	34.367	0.24	27.361	72.6	1.569
981	3.48	34.354	0.23	3.33	134.7	0.00	45.3	73.8	1200	3.06	34.467	0.40	27.477	61.5	1.719
1184	3.09	34.459	0.39	3.25	146.6	0.00	45.9	62.4							

19						INDOPAC LEG I						20					
LATITUDE		LONGITUDE		MO/DAY/YR		START TIME		LATITUDE		LONGITUDE		MO/DAY/YR		START TIME			
34 58.7N		140 00.5W		04/01/76		1708 GMT		35 00.5N		141 00.1W		04/01/76		2323 GMT			
Z	T	S	SIGMA T	DT	DD	Z	T	S	SIGMA T	DT	DD	Z	T	S	SIGMA T	DT	DD
0	15.88	33.96	24.996	297.1	0.000	0	16.20	33.99	24.946	301.9	0.000	0	16.20	33.99	24.946	301.9	0.000
10	15.83	33.97	25.003	296.4	0.030	10	16.17	33.98	24.945	302.0	0.030	10	16.17	33.98	24.945	302.0	0.030
20	15.84	33.97	25.003	296.4	0.059	20	16.06	33.95	24.947	301.8	0.060	20	16.06	33.95	24.947	301.8	0.060
30	15.88	33.97	25.003	296.4	0.089	30	15.96	33.94	24.962	300.3	0.091	30	15.96	33.94	24.962	300.3	0.091
40	15.89	33.98	25.009	295.9	0.119	40	15.97	33.95	24.968	299.8	0.121	40	15.97	33.95	24.968	299.8	0.121
50	15.88	33.97	25.003	296.4	0.149	50	15.99	33.95	24.963	300.2	0.151	50	15.99	33.95	24.963	300.2	0.151
75	15.82	33.96	25.009	295.9	0.223	75	16.07	33.98	24.968	299.8	0.226	75	16.07	33.98	24.968	299.8	0.226
100	15.39	33.85	25.021	294.8	0.298	100	16.11	33.99	24.967	299.9	0.302	100	16.11	33.99	24.967	299.9	0.302
125	15.31	33.85	25.039	293.1	0.372	125	14.53	33.92	25.262	271.8	0.374	125	14.53	33.92	25.262	271.8	0.374
150	13.54	33.77	25.353	263.2	0.442	150	12.56	33.85	25.610	238.7	0.439	150	12.56	33.85	25.610	238.7	0.439
175	11.74	33.73	25.673	232.7	0.505	175	11.47	33.95	25.894	211.8	0.496	175	11.47	33.95	25.894	211.8	0.496
200	10.69	33.90	25.996	202.1	0.561	200	10.88	34.03	26.063	195.7	0.548	200	10.88	34.03	26.063	195.7	0.548
225	9.89	33.98	26.196	183.1	0.610	225	10.26	34.07	26.203	182.4	0.597	225	10.26	34.07	26.203	182.4	0.597
250	9.41	33.97	26.267	176.3	0.656	250	9.86	34.10	26.294	173.7	0.642	250	9.86	34.10	26.294	173.7	0.642
275	9.06	34.06	26.394	164.2	0.700	275	9.44	34.09	26.356	167.8	0.686	275	9.44	34.09	26.356	167.8	0.686
300	8.58	34.05	26.462	157.8	0.741	300	9.02	34.08	26.416	162.1	0.729	300	9.02	34.08	26.416	162.1	0.729
350	7.51	33.99	26.574	147.1	0.820	350	8.13	34.03	26.515	152.8	0.811	350	8.13	34.03	26.515	152.8	0.811
400	6.31	33.97	26.642	140.7	0.895	400	7.39	33.99	26.591	145.5	0.868	400	7.39	33.99	26.591	145.5	0.868
450	6.01	33.96	26.753	130.2	0.966	450	6.39	33.95	26.696	135.6	0.962	450	6.39	33.95	26.696	135.6	0.962
500	5.37	33.97	26.839	122.0	1.032	500	5.65	33.95	26.789	126.7	1.030	500	5.65	33.95	26.789	126.7	1.030
550	4.78	34.00	26.931	113.3	1.094	550	4.92	33.97	26.884	117.7	1.095	550	4.92	33.97	26.884	117.7	1.095
600	4.51	34.04	26.992	107.5	1.152	600	4.56	34.02	26.971	109.5	1.154	600	4.56	34.02	26.971	109.5	1.154
650	4.33	34.09	27.051	101.9	1.207	650	4.30	34.08	27.046	102.4	1.210	650	4.30	34.08	27.046	102.4	1.210
700	4.16	34.14	27.109	96.4	1.260	700	4.20	34.14	27.104	96.8	1.263	700	4.20	34.14	27.104	96.8	1.263
750	4.00	34.19	27.165	91.1	1.310	750	4.07	34.19	27.158	91.8	1.314	750	4.07	34.19	27.158	91.8	1.314
800	3.89	34.23	27.208	87.0	1.356	800	3.92	34.24	27.213	86.6	1.362	800	3.92	34.24	27.213	86.6	1.362
850	3.76	34.27	27.253	82.8	1.404	850	3.82	34.28	27.255	82.6	1.407	850	3.82	34.28	27.255	82.6	1.407
900	3.66	34.30	27.287	79.6	1.448	900	3.72	34.30	27.281	80.1	1.452	900	3.72	34.30	27.281	80.1	1.452
950	3.55	34.34	27.329	75.5	1.490	950	3.62	34.34	27.322	76.2	1.494	950	3.62	34.34	27.322	76.2	1.494
1000	3.47	34.38	27.369	71.8	1.531	1000	3.54	34.37	27.354	73.2	1.536	1000	3.54	34.37	27.354	73.2	1.536
1100	3.28	34.43	27.427	66.3	1.608	1100	3.35	34.43	27.420	66.9	1.614	1100	3.35	34.43	27.420	66.9	1.614
1200	3.13	34.47	27.473	61.9	1.680	1200	3.19	34.47	27.467	62.5	1.687	1200	3.19	34.47	27.467	62.5	1.687

21					
LATITUDE	LONGITUDE		MO/DAY/YR	START TIME	
34 58.9N	142 00.1W		04/02/76	0543 GMT	
Z	T	S	SIGMA T	DT	DD
0	16.07	33.95	24.945	302.0	0.000
10	16.07	33.95	24.945	302.0	0.030
20	16.07	33.95	24.945	302.0	0.060
30	16.06	33.96	24.950	301.5	0.091
40	16.09	33.96	24.948	301.7	0.121
50	16.14	33.98	24.952	301.3	0.151
75	16.25	34.02	24.958	300.6	0.227
100	16.33	34.05	24.962	300.3	0.303
125	15.35	33.94	25.099	287.3	0.377
150	12.34	33.77	25.590	240.6	0.444
175	11.17	33.88	25.894	211.7	0.501
200	10.78	34.05	26.096	192.5	0.553
225	10.35	34.08	26.195	183.1	0.601
250	9.95	34.11	26.287	174.4	0.647
275	9.56	34.12	26.360	167.5	0.691
300	9.32	34.12	26.399	163.7	0.734
350	8.45	34.07	26.497	154.4	0.817
400	7.46	34.00	26.589	145.7	0.895
450	6.61	33.97	26.683	136.8	0.969
500	5.90	33.97	26.774	128.1	1.038
550	5.23	33.98	26.863	119.7	1.103
600	4.77	34.01	26.940	112.5	1.164
650	4.41	34.05	27.011	105.7	1.222
700	4.24	34.11	27.076	99.5	1.276
750	4.10	34.17	27.139	93.6	1.328
800	4.00	34.23	27.197	88.1	1.377
850	3.85	34.26	27.236	84.4	1.423
900	3.71	34.30	27.282	80.0	1.468
950	3.58	34.33	27.318	76.6	1.511
1000	3.46	34.36	27.354	73.2	1.552
1100	3.25	34.41	27.414	67.5	1.630
1200	3.06	34.46	27.471	62.1	1.703

RV THOMAS WASHINGTON

INDOPAC LEG I

22

LATITUDE		LONGITUDE		MO/DAY/YR		MESSENGER TIME		BOTTOM		WIND		SPEED		WEATHER		DOMINANT WAVES	
34 59.4N		143 00.8W		4/ 2/76		1242 GMT		5442M		350		16KT					
Z	T	S	O2	P04	SIC3	N02	N03	DT	Z	T	S	O2	SIGT	DT	DD		
0	16.96	34.221	5.62					301.8	0	16.96	34.221	5.62	24.946	301.8	0.000		
10	17.00	34.223	5.62					302.6	10	17.00	34.223	5.62	24.938	302.6	0.030		
20	17.01	34.225	5.62					302.7	20	17.01	34.225	5.62	24.937	302.7	0.061		
31	17.03	34.225	5.63					303.1	30	17.03	34.226	5.63	24.933	303.1	0.091		
50	17.03	34.228	5.62					302.9	50	17.03	34.228	5.62	24.935	302.9	0.152		
75	17.03	34.224	5.63					303.2	75	17.03	34.224	5.63	24.932	303.2	0.228		
100	17.05	34.224	5.62					303.6	100	17.05	34.224	5.62	24.927	303.6	0.305		
125	17.12	34.029	5.75					276.0	125	17.12	34.029	5.75	25.218	276.0	0.378		
150	12.86	33.852	5.68					244.2	150	12.86	33.852	5.68	25.552	244.2	0.444		
199	11.30	34.021	5.22					203.6	200	11.28	34.025	5.21	25.986	203.0	0.558		
249	10.51	34.108	4.90					183.7	250	10.49	34.110	4.90	26.192	183.4	0.657		
298	9.71	34.107	4.90					170.8	300	9.68	34.107	4.89	26.329	170.4	0.748		
398	7.99	34.015	4.52					151.9	400	7.95	34.014	4.49	26.528	151.5	0.916		
497	6.09	33.946	2.97					132.2	500	6.04	33.947	2.94	26.737	131.7	1.064		
596	4.91	33.972	1.98					116.8	600	4.88	33.977	1.94	26.900	116.2	1.194		
695	4.28	34.078	1.07					102.5	700	4.26	34.065	1.03	27.053	101.7	1.309		
794	4.03	34.192	0.50					91.2	800	4.01	34.198	0.48	27.170	90.6	1.412		
892	3.74	34.276	0.36					82.1	1000	3.47	34.354	0.25	27.347	73.7	1.591		
990	3.49	34.349	0.25					74.2	1200	3.16	34.454	0.42	27.457	63.4	1.744		
1187	3.18	34.448	0.41					64.0									

RV THOMAS WASHINGTON

INDOPAC LEG I

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LATITUDE		LONGITUDE		MO/DAY/YR		MESSENGER TIME		BOTTOM		WIND		SPEED		WEATHER		DOMINANT WAVES	
35 00.4N		144 00.8W		4/ 2/76		1857 GMT		5409M		010		10KT				010 6	
Z	T	S	O2	P04	SIC3	N02	N03	DT	Z	T	S	O2	SIGT	DT	DD		
0	16.66	34.12	5.71	0.06	5.7	0.00	0.0	302.5	0	16.66	34.12	5.71	24.939	302.5	0.000		
10	16.68	34.12	5.70	0.05	5.6	0.00	0.0	303.0	10	16.68	34.12	5.70	24.935	303.0	0.030		
31	16.68	34.12	5.74	0.04	5.5	0.00	0.0	303.0	20	16.68	34.12	5.72	24.935	303.0	0.061		
41	16.69	34.12	5.70	0.05	5.4	0.00	0.0	303.2	30	16.68	34.12	5.74	24.935	303.0	0.091		
51	16.69	34.12	5.70	0.04	5.3	0.00	0.0	303.2	50	16.69	34.12	5.70	24.932	303.2	0.152		
76	16.70	34.12	5.70	0.06	5.2	0.00	0.0	303.4	75	16.70	34.12	5.70	24.930	303.4	0.228		
101	16.69	34.12	5.68	0.06	5.1	0.00	0.0	303.2	100	16.69	34.12	5.68	24.932	303.2	0.305		
116	16.65	34.12	5.69	0.07	5.0	0.03	0.0	302.3	125	14.97	34.00	5.81	25.230	274.8	0.378		
126	14.76	33.99	5.82	0.10	5.3	0.06	0.0	271.4	150	12.46	33.85	5.36	25.626	237.2	0.443		
152	12.36	33.84	5.30	0.36	6.9	0.09	1.0	235.8	200	10.74	34.04	5.02	26.091	193.0	0.552		
201	10.73	34.04	5.02	0.82	12.9	0.07	9.7	192.4	250	9.89	34.12	4.93	26.304	172.8	0.646		
251	9.88	34.12	4.93	1.08	17.9	0.07	13.8	172.6	300	9.12	34.08	4.88	26.400	163.7	0.733		
300	9.12	34.08	4.88	1.24	23.2	0.07	16.6	163.7	400	7.42	33.98	4.21	26.579	146.7	0.894		
400	7.42	33.98	4.21	1.69	37.6	0.08	22.2	146.7	500	5.93	33.94	2.89	26.747	130.7	1.039		
497	5.97	33.94	2.93	2.27	58.7	0.07	30.5	131.2	600	4.75	33.98	1.77	26.920	114.3	1.168		
597	4.78	33.98	1.80	2.78	82.0	0.10	37.6	114.8	700	4.17	34.11	0.89	27.080	99.1	1.261		
694	4.19	34.10	0.93	3.06	103.4	0.07	41.6	99.7	800	3.95	34.20	0.48	27.175	90.2	1.382		
793	3.97	34.19	0.49	3.19	115.4	0.08	43.0	90.8	1000	3.41	34.35	0.22	27.348	73.7	1.560		
991	3.43	34.34	0.22	3.27	136.6	0.00	43.8	74.4	1200	3.12	34.45	0.36	27.458	63.3	1.713		
1194	3.13	34.45	0.36	3.29	146.2	0.00	45.2	63.4									

RV THOMAS WASHINGTON

INDOPAC LEG I

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LATITUDE		LONGITUDE		MO/DAY/YR		MESSENGER TIME		BOTTOM		WIND		SPEED		WEATHER		DOMINANT WAVES	
34 59.2N		144 59.9W		4/ 3/76		0112 GMT		5534M		040		6KT				010 6 4	
Z	T	S	O2	P04	SIC3	N02	N03	DT	Z	T	S	O2	SIGT	DT	DD		
0	16.23	34.021	5.74					300.3	0	16.23	34.021	5.74	24.963	300.3	0.000		
10	16.23	34.023	5.73					300.1	10	16.23	34.023	5.73	24.964	300.1	0.030		
20	16.22	34.024	5.73					299.8	20	16.22	34.024	5.73	24.967	299.8	0.060		
31	16.21	34.023	5.70					299.7	30	16.21	34.024	5.70	24.969	299.7	0.090		
50	16.18	34.023						299.0	50	16.18	34.023	5.71	24.976	299.0	0.150		
76	16.18	34.023	5.74					299.0	75	16.18	34.024	5.74	24.976	299.0	0.225		
100	16.19	34.022	5.71					299.3	100	16.19	34.022	5.71	24.973	299.3	0.301		
125	14.45	34.007	5.77					263.9	125	14.45	34.007	5.77	25.346	263.9	0.372		
151	12.51	33.838	5.52					238.7	150	12.58	33.845	5.53	25.601	239.5	0.436		
200	10.82	34.027	5.17					194.9	200	10.82	34.027	5.17	26.071	194.9	0.547		
249	9.90	34.122	5.03					172.7	250	9.89	34.124	5.03	26.307	172.5	0.641		
299	9.32	34.127	4.87					163.2	300	9.30	34.127	4.87	26.406	163.1	0.728		
399	7.60	34.021	4.22					146.0	400	7.59	34.021	4.21	26.588	145.9	0.888		
497	5.95	33.972	2.85					128.6	500	5.91	33.973	2.82	26.775	128.1	1.032		
596	4.87	34.008	1.86					113.7	600	4.84	34.012	1.83	26.933	113.1	1.158		
694	4.27	34.100	1.10					100.5	700	4.25	34.110	1.05	27.074	99.7	1.271		
792	4.06	34.235	0.43					88.3	800	4.04	34.244	0.40	27.203	87.5	1.372		
890	3.79	34.318	0.25					79.4	1000	3.54	34.384	0.28	27.364	72.2	1.546		
988	3.57	34.377	0.27					72.9	1200	3.18	34.477	0.44	27.473	61.8	1.697		
1186	3.20	34.471	0.43					62.5									

22						INDOPAC LEG 1						23					
LATITUDE	LONGITUDE	MO/DAY/YR	START TIME			LATITUDE	LONGITUDE	MO/DAY/YR	START TIME			LATITUDE	LONGITUDE	MO/DAY/YR	START TIME		
34 59.4N	143 00.8W	04/02/76	1154 GMT			35 00.4N	144 00.8W	04/02/76	1818 GMT								
Z	T	S	SIGMA T	DT	DD	Z	T	S	SIGMA T	DT	DD	Z	T	S	SIGMA T	DT	DD
0	16.98	34.22	24.941	302.4	0.000	0	16.62	34.10	24.933	303.1	0.000	0	16.62	34.10	24.933	303.1	0.000
10	16.99	34.22	24.938	302.6	0.030	10	16.64	34.10	24.929	303.5	0.030	10	16.64	34.10	24.929	303.5	0.030
20	16.98	34.22	24.941	302.4	0.061	20	16.65	34.11	24.934	303.0	0.061	20	16.65	34.11	24.934	303.0	0.061
30	16.99	34.22	24.938	302.6	0.091	30	16.66	34.11	24.932	303.2	0.091	30	16.66	34.11	24.932	303.2	0.091
40	16.99	34.22	24.938	302.6	0.121	40	16.66	34.11	24.932	303.2	0.122	40	16.66	34.11	24.932	303.2	0.122
50	17.00	34.22	24.936	302.8	0.152	50	16.67	34.11	24.929	303.5	0.152	50	16.67	34.11	24.929	303.5	0.152
75	17.00	34.22	24.936	302.8	0.228	75	16.67	34.11	24.929	303.5	0.228	75	16.67	34.11	24.929	303.5	0.228
100	17.01	34.22	24.934	303.0	0.304	100	16.66	34.11	24.932	303.2	0.305	100	16.66	34.11	24.932	303.2	0.305
125	14.71	34.01	25.292	268.9	0.377	125	14.68	33.96	25.260	272.0	0.378	125	14.68	33.96	25.260	272.0	0.378
150	12.65	33.86	25.600	239.7	0.441	150	12.19	33.84	25.673	232.7	0.442	150	12.19	33.84	25.673	232.7	0.442
175	11.85	33.93	25.807	219.9	0.500	175	11.31	33.97	25.939	207.5	0.498	175	11.31	33.97	25.939	207.5	0.498
200	11.34	34.02	25.972	204.3	0.554	200	10.76	34.03	26.084	193.7	0.549	200	10.76	34.03	26.084	193.7	0.549
225	10.78	34.07	26.112	191.0	0.604	225	10.28	34.09	26.215	181.3	0.597	225	10.28	34.09	26.215	181.3	0.597
250	10.40	34.10	26.202	182.5	0.652	250	9.81	34.10	26.302	172.9	0.642	250	9.81	34.10	26.302	172.9	0.642
275	9.98	34.10	26.274	175.6	0.698	275	9.42	34.09	26.359	167.5	0.686	275	9.42	34.09	26.359	167.5	0.686
300	9.67	34.10	26.326	170.7	0.743	300	9.04	34.07	26.405	163.2	0.729	300	9.04	34.07	26.405	163.2	0.729
350	8.82	34.06	26.432	160.6	0.829	350	8.26	34.03	26.495	154.6	0.811	350	8.26	34.03	26.495	154.6	0.811
400	7.96	34.02	26.532	151.1	0.910	400	7.48	33.99	26.578	146.7	0.890	400	7.48	33.99	26.578	146.7	0.890
450	6.99	33.97	26.631	141.7	0.987	450	6.56	33.96	26.682	136.9	0.964	450	6.56	33.96	26.682	136.9	0.964
500	6.18	33.95	26.723	133.0	1.059	500	6.00	33.95	26.746	130.8	1.034	500	6.00	33.95	26.746	130.8	1.034
550	5.41	33.95	26.818	124.0	1.127	550	5.22	33.96	26.849	121.1	1.100	550	5.22	33.96	26.849	121.1	1.100
600	4.83	33.98	26.909	115.4	1.189	600	4.75	33.99	26.926	113.8	1.162	600	4.75	33.99	26.926	113.8	1.162
650	4.44	34.02	26.984	109.3	1.248	650	4.41	34.04	27.003	106.5	1.220	650	4.41	34.04	27.003	106.5	1.220
700	4.23	34.09	27.062	100.9	1.304	700	4.17	34.11	27.084	98.8	1.275	700	4.17	34.11	27.084	98.8	1.275
750	4.11	34.15	27.122	95.2	1.356	750	4.05	34.15	27.128	94.6	1.326	750	4.05	34.15	27.128	94.6	1.326
800	3.99	34.20	27.174	90.3	1.406	800	3.94	34.20	27.179	89.8	1.376	800	3.94	34.20	27.179	89.8	1.376
850	3.84	34.24	27.221	85.8	1.454	850	3.79	34.24	27.226	85.3	1.423	850	3.79	34.24	27.226	85.3	1.423
900	3.70	34.29	27.275	80.7	1.499	900	3.66	34.28	27.271	81.1	1.468	900	3.66	34.28	27.271	81.1	1.468
950	3.54	34.33	27.322	76.2	1.542	950	3.53	34.31	27.307	77.6	1.511	950	3.53	34.31	27.307	77.6	1.511
1000	3.45	34.36	27.355	73.1	1.583	1000	3.42	34.35	27.350	73.6	1.553	1000	3.42	34.35	27.350	73.6	1.553
1100	3.29	34.41	27.410	67.9	1.661	1100	3.27	34.40	27.404	68.4	1.632	1100	3.27	34.40	27.404	68.4	1.632
1200	3.15	34.45	27.455	63.6	1.735	1200	3.09	34.44	27.452	63.8	1.706	1200	3.09	34.44	27.452	63.8	1.706

24						INDOPAC LEG 1					
LATITUDE	LONGITUDE	MO/DAY/YR	START TIME			LATITUDE	LONGITUDE	MO/DAY/YR	START TIME		
34 59.2N	144 59.9W	04/03/76	0029 GMT								
Z	T	S	SIGMA T	DT	DD	Z	T	S	SIGMA T	DT	DD
0	16.21	34.03	24.974	299.2	0.000	0	16.21	34.03	24.974	299.2	0.000
10	16.22	34.03	24.972	299.4	0.030	10	16.22	34.03	24.972	299.4	0.030
20	16.20	34.03	24.977	299.0	0.060	20	16.20	34.03	24.977	299.0	0.060
30	16.18	34.03	24.981	298.5	0.090	30	16.18	34.03	24.981	298.5	0.090
40	16.18	34.03	24.981	298.5	0.120	40	16.18	34.03	24.981	298.5	0.120
50	16.18	34.03	24.981	298.5	0.150	50	16.18	34.03	24.981	298.5	0.150
75	16.18	34.03	24.981	298.5	0.225	75	16.18	34.03	24.981	298.5	0.225
100	16.18	34.03	24.981	298.5	0.300	100	16.18	34.03	24.981	298.5	0.300
125	14.74	34.00	25.278	270.3	0.372	125	14.74	34.00	25.278	270.3	0.372
150	12.59	33.85	25.604	239.3	0.437	150	12.59	33.85	25.604	239.3	0.437
175	11.38	33.92	25.887	212.4	0.494	175	11.38	33.92	25.887	212.4	0.494
200	10.78	34.00	26.057	196.2	0.546	200	10.78	34.00	26.057	196.2	0.546
225	10.36	34.13	26.232	179.6	0.594	225	10.36	34.13	26.232	179.6	0.594
250	9.82	34.13	26.324	170.9	0.639	250	9.82	34.13	26.324	170.9	0.639
275	9.55	34.13	26.369	166.6	0.683	275	9.55	34.13	26.369	166.6	0.683
300	9.25	34.12	26.410	162.7	0.726	300	9.25	34.12	26.410	162.7	0.726
350	8.36	34.06	26.503	153.8	0.808	350	8.36	34.06	26.503	153.8	0.808
400	7.64	34.03	26.587	145.9	0.886	400	7.64	34.03	26.587	145.9	0.886
450	6.70	33.99	26.686	136.5	0.960	450	6.70	33.99	26.686	136.5	0.960
500	6.02	33.98	26.767	128.8	1.029	500	6.02	33.98	26.767	128.8	1.029
550	5.28	33.99	26.865	119.5	1.095	550	5.28	33.99	26.865	119.5	1.095
600	4.92	34.01	26.923	114.1	1.156	600	4.92	34.01	26.923	114.1	1.156
650	4.53	34.04	26.990	107.7	1.215	650	4.53	34.04	26.990	107.7	1.215
700	4.24	34.10	27.069	100.2	1.270	700	4.24	34.10	27.069	100.2	1.270
750	4.11	34.17	27.138	93.7	1.322	750	4.11	34.17	27.138	93.7	1.322
800	4.04	34.24	27.200	87.7	1.370	800	4.04	34.24	27.200	87.7	1.370
850	3.88	34.29	27.257	82.4	1.417	850	3.88	34.29	27.257	82.4	1.417
900	3.75	34.33	27.301	78.2	1.460	900	3.75	34.33	27.301	78.2	1.460
950	3.65	34.36	27.335	74.9	1.502	950	3.65	34.36	27.335	74.9	1.502
1000	3.55	34.38	27.361	72.5	1.543	1000	3.55	34.38	27.361	72.5	1.543
1100	3.36	34.43	27.419	67.0	1.621	1100	3.36	34.43	27.419	67.0	1.621
1200	3.18	34.47	27.468	62.4	1.694	1200	3.18	34.47	27.468	62.4	1.694

RV THOMAS WASHINGTON										INDOPAC LEG I									
LATITUDE		LONGITUDE		MO/DAY/YR		MESSENGER		TIME	POTOM	WIND	SPEED	WEATHER	DOMINANT WAVES						
34 59.6N		146 00.5W		4/ 3/76		0727 GMT			5444M	080	3KT		U						
Z	T	S	02	P04	S103	N02	N03	DT	Z	T	S	02	SIGT	DT	DD				
0	16.85	34.29	5.62	0.04	4.1	0.00	0.1	294.4	0	16.85	34.29	5.62	25.025	294.4	0.000				
10	16.87	34.28	5.63	0.02	4.1	0.00	0.1	295.5	10	16.87	34.28	5.63	25.012	295.5	0.030				
20	16.87	34.28	5.61	0.04	4.1	0.00	0.1	295.5	20	16.87	34.28	5.61	25.012	295.5	0.059				
31	16.84	34.28	5.62	0.04	4.0	0.00	0.1	294.9	30	16.84	34.28	5.62	25.019	294.9	0.089				
50	16.88	34.27	5.63	0.02	4.0	0.00	0.1	296.5	50	16.88	34.27	5.63	25.002	296.5	0.148				
76	16.88	34.28	5.63	0.03	4.0	0.00	0.0	295.8	75	16.88	34.28	5.63	25.010	295.8	0.223				
100	16.85		5.62	0.03	4.0	0.00	0.0	295.1	100	16.85	34.28	5.62	25.017	295.1	0.297				
125	15.80	34.12	5.68	0.05	4.2	0.00	0.1	283.7	125	15.80	34.12	5.68	25.136	283.7	0.370				
151	12.91	33.96	5.59	0.30	6.1	0.03	2.0	237.2	150	13.02	33.96	5.59	25.606	239.1	0.437				
160	12.42		5.45	0.40	7.4	0.01	4.1		200	11.60	34.14	5.20	26.017	200.0	0.549				
175	12.00	34.07	5.36	0.55	8.4	0.00	6.6	212.3	250	10.53	34.20	5.11	26.256	177.3	0.645				
190	11.78	34.13	5.25	0.60	9.9	0.00	8.2	204.0	300	9.71	34.17	5.00	26.371	166.4	0.734				
200	11.60	34.14	5.20	0.65	10.3	0.00	9.0	200.0	400	7.85	34.04	4.39	26.563	148.2	0.898				
249	10.55	34.20	5.11	0.96	16.0	0.00	12.8	177.6	500	6.39	33.98	3.37	26.720	133.3	1.046				
298	9.75	34.17	5.01	1.11	19.7	0.00	15.2	166.8	600	5.00	34.00	2.13	26.908	115.4	1.177				
398	7.88	34.04	4.41	1.56	33.6	0.00	21.8	148.5	700	4.29	34.08	1.23	27.046	102.4	1.292				
496	6.45	33.98	3.42	2.00	51.3	0.00	29.2	134.1	800	4.04	34.19	0.59	27.161	91.5	1.396				
594	5.06	34.00	2.19	2.57	76.4	0.00	37.1	116.3	1000	3.65	34.37	0.25	27.339	74.6	1.577				
692	4.32	34.07	1.30	2.93	97.4	0.00	41.5	103.3	1200	3.19	34.45	0.42	27.451	64.0	1.732				
791	4.06	34.18	0.61	3.11	112.7	0.00	44.1	92.4											
987	3.68	34.36	0.25	3.29	131.0	0.00	45.4	75.2											
1186	3.22	34.44	0.41	3.25	145.4	0.00	45.6	65.0											

RV THOMAS WASHINGTON										INDOPAC LEG I									
LATITUDE		LONGITUDE		MO/DAY/YR		MESSENGER		TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES						
34 58.8N		147 00.7W		4/ 3/76		1318 GMT			5438M	240	2KT								
Z	T	S	02	P04	S103	N02	N03	DT	Z	T	S	02	SIGT	DT	DD				
0	17.15	34.265	5.61					302.9	0	17.15	34.265	5.61	24.935	302.9	0.000				
10	17.14	34.264	5.60					302.8	10	17.14	34.264	5.60	24.936	302.8	0.030				
31	17.13	34.276	5.60					301.7	20	17.14	34.269	5.60	24.941	302.4	0.061				
50	17.03	34.268	5.61					300.0	30	17.13	34.276	5.60	24.947	301.7	0.091				
76	16.96	34.260	5.61					299.0	50	17.03	34.268	5.61	24.966	300.0	0.151				
100	16.94	34.255	5.62					298.9	75	16.96	34.261	5.61	24.976	299.0	0.227				
120	16.32	34.215	5.63					288.1	100	16.94	34.255	5.62	24.977	298.9	0.302				
135	15.93	34.002	5.69					253.8	125	15.92	34.134	5.66	25.209	276.8	0.375				
150	15.26	34.026	5.52					239.0	150	15.26	34.026	5.52	25.607	239.0	0.440				
200	11.48	34.043	5.26					205.1	200	11.48	34.043	5.26	25.964	205.1	0.554				
249	10.69	34.171	5.07					182.1	250	10.67	34.173	5.07	26.209	181.8	0.653				
299	9.87	34.156	5.01					169.7	300	9.86	34.156	5.01	26.338	169.6	0.744				
398	8.44	34.073	4.66					154.0	400	8.40	34.071	4.66	26.505	153.7	0.912				
496	6.57	33.980	3.51					135.6	500	6.50	33.980	3.45	26.703	134.9	1.063				
596	5.21	33.991	1.99					118.7	600	5.17	33.996	1.94	26.882	117.9	1.196				
694	4.42	34.097	1.06					102.3	700	4.40	34.104	1.02	27.054	101.6	1.313				
793	4.15	34.186	0.56					92.9	800	4.13	34.194	0.53	27.153	92.2	1.417				
892	3.92	34.281	0.28					83.5	1000	3.60	34.365	0.27	27.343	74.2	1.598				
990	3.63	34.358	0.27					74.9	1200	3.17	34.461	0.40	27.462	63.0	1.752				
1190	3.19	34.456	0.39					63.5											

RV THOMAS WASHINGTON										INDOPAC LEG I									
LATITUDE		LONGITUDE		MO/DAY/YR		MESSENGER		TIME	POTOM	WIND	SPEED	WEATHER	DOMINANT WAVES						
34 58.8N		148 00.1W		4/ 5/76		1935 GMT			5506M	300	2KT	2	300 4 6						
Z	T	S	02	P04	S103	N02	N03	DT	Z	T	S	02	SIGT	DT	DD				
0	16.94	34.228	5.64	0.07	5.9	0.00	0.0	300.9	0	16.94	34.228	5.64	24.956	300.9	0.000				
10	16.93	34.229	5.63	0.13	5.7	0.00	0.0	300.6	10	16.93	34.229	5.63	24.959	300.6	0.030				
20	16.89	34.228	5.63	0.10	5.8	0.00	0.0	299.8	20	16.89	34.228	5.63	24.968	299.8	0.060				
40	16.93	34.230	5.62	0.11	5.8	0.00	0.0	300.5	30	16.90	34.230	5.62	24.966	300.0	0.090				
65	16.92	34.230	5.63	0.10	6.0	0.00	0.0	300.3	50	16.93	34.230	5.63	24.961	300.5	0.151				
75	16.92	34.229	5.62	0.08	6.8	0.00	0.0	300.4	75	16.92	34.229	5.62	24.962	300.4	0.226				
95	16.84	34.228	5.63	0.11	6.3	0.00	0.0	298.6	100	16.92	34.218	5.64	25.045	292.4	0.301				
110	15.72	34.175	5.66	0.14	6.6	0.00	0.0	278.0	125	14.51	34.041	5.74	25.359	262.6	0.371				
125	14.51	34.041	5.74	0.19	6.7	0.06	0.0	262.6	150	12.62	34.049	5.50	25.752	225.2	0.433				
150	12.62	34.049	5.50	0.46	8.7	0.03	3.9	225.2	200	11.73	34.167	5.24	26.012	200.5	0.542				
199	11.75	34.164	5.24	0.70	12.2	0.03	8.9	200.9	250	10.95	34.211	5.09	26.189	183.7	0.640				
249	10.97	34.210	5.09	0.89	15.8	0.03	11.9	183.9	300	10.10	34.177	5.03	26.313	171.9	0.732				
298	10.13	34.178	5.03	1.06	19.3	0.03	14.5	172.3	400	8.38	34.074	4.65	26.510	153.2	0.901				
398	8.42	34.075	4.66	1.42	29.8	0.03	19.7	153.6	500	6.70	33.989	3.76	26.685	136.6	1.053				
497	6.74	33.989	3.80	1.97	48.8	0.03	27.1	137.1	600	5.42	33.983	2.53	26.842	121.7	1.190				
596	5.47	33.980	2.58	2.49	70.6	0.00	34.4	122.4	700	4.38	34.053	1.48	27.015	105.2	1.310				
695	4.41	34.047	1.53	2.97	94.7	0.00	40.6	105.9	800	4.03	34.169	0.71	27.144	93.0	1.416				
793	4.05	34.161	0.73	3.15	112.3	0.00	43.1	93.8	1000	3.51	34.329	0.30	27.324	75.9	1.600				
989	3.53	34.322	0.29	3.33	135.8	0.00	45.3	76.7	1200	3.15	34.447	0.39	27.452	63.8	1.756				
1184	3.15	34.438	0.38	3.34	148.0	0.00	45.7	64.8											

25						INDOPAC LEG I						26					
LATITUDE		LONGITUDE		MO/DAY/YR		START TIME		LATITUDE		LONGITUDE		MO/DAY/YR		START TIME			
34 59.6N		146 00.5W		04/03/76		0625 GMT		34 58.8N		147 00.7W		04/03/76		1241 GMT			
Z	T	S	SIGMA T	DT	DD	Z	T	S	SIGMA T	DT	DD	Z	T	S	SIGMA T	DT	DD
0	16.83	34.26	25.007	296.1	0.000	0	17.14	34.27	24.941	302.3	0.000	0	17.14	34.27	24.941	302.3	0.000
10	16.84	34.27	25.012	295.6	0.030	10	17.15	34.27	24.939	302.6	0.030	10	17.15	34.27	24.939	302.6	0.030
20	16.85	34.27	25.009	295.8	0.059	20	17.14	34.28	24.949	301.6	0.061	20	17.14	34.28	24.949	301.6	0.061
30	16.85	34.27	25.009	295.8	0.089	30	17.11	34.28	24.956	300.9	0.091	30	17.11	34.28	24.956	300.9	0.091
40	16.85	34.27	25.009	295.8	0.119	40	17.08	34.29	24.971	299.5	0.121	40	17.08	34.29	24.971	299.5	0.121
50	16.85	34.27	25.009	295.8	0.148	50	17.06	34.29	24.975	299.1	0.151	50	17.06	34.29	24.975	299.1	0.151
75	16.84	34.27	25.012	295.6	0.223	75	16.98	34.28	24.987	298.0	0.226	75	16.98	34.28	24.987	298.0	0.226
100	16.84	34.27	25.012	295.6	0.297	100	16.94	34.27	24.988	297.8	0.301	100	16.94	34.27	24.988	297.8	0.301
125	16.06	34.16	25.108	266.4	0.371	125	15.57	34.15	25.211	276.6	0.374	125	15.57	34.15	25.211	276.6	0.374
150	13.41	33.95	25.518	247.5	0.439	150	13.23	34.00	25.593	240.3	0.439	150	13.23	34.00	25.593	240.3	0.439
175	12.30	34.01	25.784	222.2	0.498	175	12.07	33.99	25.812	219.5	0.498	175	12.07	33.99	25.812	219.5	0.498
200	11.80	34.10	25.948	206.5	0.553	200	11.48	34.04	25.962	205.3	0.552	200	11.48	34.04	25.962	205.3	0.552
225	11.12	34.13	26.097	192.4	0.604	225	11.14	34.13	26.094	192.7	0.603	225	11.14	34.13	26.094	192.7	0.603
250	10.70	34.17	26.203	182.3	0.652	250	10.70	34.17	26.203	182.3	0.651	250	10.70	34.17	26.203	182.3	0.651
275	10.24	34.16	26.276	175.4	0.698	275	10.36	34.17	26.263	176.7	0.698	275	10.36	34.17	26.263	176.7	0.698
300	9.84	34.15	26.336	169.7	0.743	300	9.90	34.16	26.334	169.9	0.743	300	9.90	34.16	26.334	169.9	0.743
350	8.89	34.11	26.460	157.9	0.828	350	9.04	34.11	26.436	160.2	0.828	350	9.04	34.11	26.436	160.2	0.828
400	8.15	34.06	26.535	150.6	0.909	400	8.27	34.07	26.525	151.8	0.910	400	8.27	34.07	26.525	151.8	0.910
450	7.10	34.00	26.640	140.9	0.985	450	7.32	34.01	26.617	143.1	0.987	450	7.32	34.01	26.617	143.1	0.987
500	6.44	33.98	26.713	134.0	1.057	489	6.61	33.98	26.691	136.1	1.044						
550	5.66	33.97	26.804	125.3	1.126												
600	5.08	33.99	26.889	117.3	1.190												
650	4.63	34.02	26.963	110.2	1.250												
700	4.28	34.08	27.048	102.2	1.306												
750	4.09	34.14	27.116	95.7	1.359												
800	3.98	34.20	27.175	90.2	1.409												
850	3.92	34.24	27.213	86.6	1.456												
900	3.85	34.28	27.252	82.9	1.502												
950	3.74	34.33	27.302	78.1	1.547												
1000	3.61	34.36	27.339	74.6	1.589												
1100	3.36	34.41	27.403	68.5	1.668												
1200	3.18	34.45	27.452	63.9	1.743												

27						INDOPAC LEG I					
LATITUDE		LONGITUDE		MO/DAY/YR		START TIME					
34 58.8N		148 00.1W		04/03/76		1851 GMT					
Z	T	S	SIGMA T	DT	DD	Z	T	S	SIGMA T	DT	DD
0	16.92	34.23	24.962	300.3	0.000						
10	16.91	34.23	24.965	300.1	0.030						
20	16.91	34.23	24.965	300.1	0.060						
30	16.91	34.23	24.965	300.1	0.090						
40	16.91	34.24	24.972	299.3	0.120						
50	16.91	34.24	24.972	299.3	0.150						
75	16.92	34.24	24.970	299.6	0.226						
100	16.61	34.22	25.027	294.1	0.301						
125	14.49	34.03	25.355	263.0	0.371						
150	12.57	34.04	25.755	225.0	0.433						
175	12.00	34.08	25.895	211.6	0.489						
200	11.77	34.16	26.001	201.6	0.541						
225	11.30	34.19	26.111	191.1	0.592						
250	10.98	34.21	26.185	184.1	0.640						
275	10.64	34.20	26.237	179.1	0.687						
300	10.15	34.18	26.307	172.5	0.732						
350	9.38	34.14	26.405	163.2	0.819						
400	8.57	34.09	26.495	154.7	0.902						
450	7.62	34.03	26.590	145.6	0.981						
500	6.80	34.00	26.681	137.0	1.056						
550	6.01	33.97	26.760	129.5	1.126						
600	5.31	33.98	26.854	120.6	1.192						
650	4.69	34.01	26.948	111.6	1.253						
700	4.32	34.06	27.028	104.1	1.310						
750	4.16	34.12	27.093	97.9	1.364						
800	3.99	34.17	27.150	92.5	1.415						
850	3.86	34.21	27.195	88.2	1.464						
900	3.77	34.25	27.236	84.4	1.511						
950	3.63	34.29	27.282	80.0	1.556						
1000	3.49	34.32	27.319	76.5	1.598						
1100	3.40	34.39	27.383	70.4	1.680						
1200	3.14	34.43	27.440	65.0	1.756						

RV THOMAS WASHINGTON

INDOPAC LEG I

28

LATITUDE		LONGITUDE		MO/DAY/YR		MESSENGER TIME		BOTTOM		WIND		SPEED		WEATHER		DOMINANT WAVES	
35 00.1N		148 59.9W		4/ 4/76		0131 GMT		5525M		250		12KT		1		270 4 10	
Z	T	S	C2	P04	S103	N02	N03	DT	Z	T	S	O2	SIGT	DT	DD		
0	16.91	34.267	5.63					297.4	0	16.91	34.267	5.63	24.993	297.4	0.000		
10	16.90	34.267	5.64					297.2	10	16.90	34.267	5.64	24.995	297.2	0.030		
20	16.90	34.267	5.63					297.2	20	16.90	34.267	5.63	24.995	297.2	0.060		
31	16.91	34.269	5.63					297.2	30	16.91	34.270	5.63	24.995	297.2	0.089		
50	16.90	34.272	5.62					296.8	50	16.90	34.272	5.62	24.999	296.8	0.149		
76	16.90	34.271	5.71					296.9	75	16.90	34.272	5.71	24.999	296.9	0.224		
100	15.96	34.085	5.70					289.7	100	15.96	34.085	5.70	25.073	289.7	0.298		
126	14.88	33.960	5.81					276.1	125	14.92	33.964	5.61	25.210	276.7	0.369		
151	13.97	33.966	5.79					257.2	150	14.01	33.966	5.79	25.406	258.1	0.437		
200	12.13	34.040	5.44					216.9	200	12.13	34.040	5.44	25.840	216.9	0.558		
250	11.24	34.203	5.12					189.1	250	11.24	34.203	5.12	26.132	189.1	0.662		
299	10.49	34.200	5.04					176.6	300	10.47	34.200	5.04	26.266	176.4	0.757		
398	8.71	34.102	4.84					155.9	400	8.67	34.101	4.62	26.486	155.5	0.930		
457	6.97	34.004	3.77					138.9	500	6.91	34.003	3.73	26.667	138.3	1.084		
596	5.32	33.988	2.42					120.1	600	5.27	33.991	2.37	26.866	119.5	1.220		
693	4.44	34.056	1.44					105.6	700	4.40	34.064	1.38	27.022	104.6	1.339		
791	4.04	34.164	0.76					93.4	800	4.01	34.173	0.72	27.150	92.5	1.444		
889	3.76	34.255	0.40					83.9	1000	3.47	34.347	0.26	27.342	74.3	1.625		
988	3.50	34.339	0.26					75.1	1200	3.10	34.452	0.34	27.461	63.0	1.779		
1184	3.13	34.444	0.33					63.9									

RV THOMAS WASHINGTON

INDOPAC LEG I

29

LATITUDE		LONGITUDE		MO/DAY/YR		MESSENGER TIME		BOTTOM		WIND		SPEED		WEATHER		DOMINANT WAVES	
34 59.6N		149 59.5W		4/ 4/76		0725 GMT		5717M		330		20KT		6			
Z	T	S	O2	P04	S103	N02	N03	DT	Z	T	S	O2	SIGT	DT	DD		
0	16.93	34.287	5.63	0.05	4.1 0.00	0.0	0.0	296.4	0	16.93	34.287	5.63	25.004	296.4	0.000		
10	16.95	34.288	5.61	0.07	3.8 0.00	0.0	0.0	296.7	10	16.95	34.288	5.61	25.000	296.7	0.030		
31	16.95	34.287	5.62	0.08	4.0 0.00	0.0	0.0	296.8	20	16.95	34.288	5.61	24.999	296.8	0.059		
50	16.76	34.252	5.62	0.09	4.0 0.00	0.1	0.1	295.1	30	16.95	34.288	5.62	24.999	296.8	0.089		
76	15.63	33.991	5.79	0.11	4.9 0.00	0.1	0.1	289.5	50	16.76	34.252	5.62	25.017	295.1	0.149		
100	14.83	33.865	5.84	0.12	5.3 0.00	0.1	0.1	282.0	75	15.68	34.003	5.78	25.073	289.8	0.222		
125	14.36	33.912	5.86	0.19	5.7 0.00	0.0	0.0	269.0	100	14.83	33.865	5.64	25.155	282.0	0.294		
151	13.09	34.013	5.52	0.38	6.5 0.06	2.5	2.5	236.7	125	14.36	33.912	5.86	25.292	269.0	0.364		
175	12.69	34.086	5.44	0.45	7.8 0.03	4.7	4.7	223.8	150	13.14	34.010	5.53	25.618	238.0	0.428		
200	12.05	34.138	5.25	0.63	9.7 0.00	7.7	7.7	208.2	200	12.05	34.138	5.25	25.931	208.2	0.542		
249	11.15	34.231	5.06	0.86	14.2 0.00	11.8	11.8	185.5	250	11.13	34.232	5.06	26.173	185.2	0.643		
349	9.46	34.141	4.89	1.17	21.8 0.00	16.7	16.4	164.4	300	10.47	34.212	4.97	26.311	172.1	0.735		
398	8.68	34.085	4.74	1.31	26.7 0.00	19.0	15.6	156.7	400	8.65	34.084	4.73	26.477	156.3	0.906		
497	7.04	33.999	3.77	1.86	44.2 0.00	26.5	14.0	140.2	500	6.99	33.998	3.73	26.652	139.7	1.062		
595	5.63	33.977	2.57	2.42	65.7 0.00	34.4	12.4	124.5	600	5.57	33.979	2.51	26.822	123.7	1.201		
692	4.63	34.030	1.61	2.80	87.7 0.00	39.8	10.9	109.5	700	4.58	34.039	1.54	26.982	108.4	1.324		
791	4.19	34.132	0.91	3.02	105.3 0.00	43.0	9.7	97.3	800	4.15	34.143	0.86	27.111	96.3	1.433		
889	3.86	34.234	0.44	3.17	120.5 0.00	44.4	86.4	86.4	1000	3.71	34.343	0.27	27.315	76.9	1.444		
987	3.74	34.333	0.27	3.25	128.3 0.00	45.0	77.8	77.8	1200	3.19	34.437	0.35	27.441	64.9	1.781		
1182	3.24	34.429	0.34	3.26	144.4 0.00	45.5	66.0	66.0									

RV THOMAS WASHINGTON

INDOPAC LEG I

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LATITUDE		LONGITUDE		MO/DAY/YR		MESSENGER TIME		BOTTOM		WIND		SPEED		WEATHER		DOMINANT WAVES	
34 59.8N		151 00.4W		4/ 4/76		1401 GMT		5622M		320		26KT					
Z	T	S	O2	P04	S103	N02	N03	DT	Z	T	S	O2	SIGT	DT	DD		
0	17.29	34.281	5.60					304.9	0	17.29	34.281	5.60	24.914	304.9	0.000		
10	17.29	34.279	5.60					305.1	10	17.29	34.279	5.60	24.912	305.1	0.031		
31	17.30	34.280	5.60					305.2	20	17.29	34.280	5.60	24.911	305.2	0.061		
50	17.31	34.281	5.60					305.4	30	17.30	34.281	5.60	24.911	305.2	0.092		
76	17.29	34.281	5.61					304.9	50	17.31	34.281	5.60	24.909	305.4	0.153		
100	16.61	34.189	5.64					296.4	75	17.29	34.282	5.61	24.914	305.0	0.230		
126	14.62	34.119	5.71					259.1	100	16.61	34.189	5.64	25.004	296.4	0.306		
151	12.95	34.184	5.42					221.5	125	14.71	34.121	5.71	25.377	260.8	0.376		
176	12.23	34.192	5.36					207.5	150	13.01	34.182	5.43	25.777	222.8	0.437		
201	11.54	34.145	5.34					198.6	200	11.57	34.148	5.34	26.028	198.9	0.545		
251	10.62	34.168	5.02					181.1	250	10.63	34.168	5.03	26.212	181.4	0.643		
351	9.13	34.137	4.91					159.6	300	9.90	34.170	4.97	26.341	169.2	0.733		
401	8.15	34.069	4.59					150.2	400	8.17	34.071	4.60	26.540	150.3	0.900		
499	6.50	33.988	3.32					134.1	500	6.48	33.989	3.31	26.713	133.9	1.049		
598	5.14	33.994	2.21					117.7	600	5.12	33.997	2.19	26.888	117.4	1.181		
697	4.41	34.080	1.29					103.5	700	4.40	34.084	1.26	27.039	103.1	1.298		
795	4.04	34.189	0.63					91.6	800	4.02	34.195	0.61	27.165	91.1	1.402		
892	3.79	34.273	0.38					82.8	1000	3.59	34.353	0.27	27.335	74.9	1.583		
988	3.61	34.345	0.27					75.7	1200	3.17	34.473	0.43	27.471	62.0	1.736		
1181	3.21	34.462	0.42					63.2									

28						INDOPAC LEG I						29					
LATITUDE	LONGITUDE	MO/DAY/YR	START TIME			LATITUDE	LONGITUDE	MO/DAY/YR	START TIME			LATITUDE	LONGITUDE	MO/DAY/YR	START TIME		
35 00.1N	148 59.9W	04/04/76	0046 GMT			34 59.6N	149 59.5W	04/04/76	0645 GMT								
Z	T	S	SIGMA T	DT	DD	Z	T	S	SIGMA T	DT	DD	Z	T	S	SIGMA T	DT	DD
0	16.93	34.28	25.005	296.2	0.000	0	16.95	34.30	25.009	295.9	0.000	0	16.95	34.30	25.009	295.9	0.000
10	16.93	34.28	25.005	296.2	0.030	10	16.95	34.30	25.009	295.9	0.030	10	16.95	34.30	25.009	295.9	0.030
20	16.89	34.28	25.008	296.0	0.059	20	16.95	34.30	25.009	295.9	0.059	20	16.95	34.30	25.009	295.9	0.059
30	16.89	34.29	25.015	295.2	0.089	30	16.95	34.30	25.009	295.9	0.089	30	16.95	34.30	25.009	295.9	0.089
40	16.89	34.29	25.015	295.2	0.119	40	16.86	34.27	25.007	296.0	0.119	40	16.86	34.27	25.007	296.0	0.119
50	16.89	34.29	25.015	295.2	0.148	50	16.68	34.25	25.019	294.9	0.148	50	16.68	34.25	25.019	294.9	0.148
75	16.87	34.29	25.020	294.8	0.222	75	15.70	33.99	25.059	291.1	0.222	75	15.70	33.99	25.059	291.1	0.222
100	15.89	34.10	25.101	287.1	0.296	100	14.73	33.82	25.142	283.3	0.294	100	14.73	33.82	25.142	283.3	0.294
125	14.69	33.98	25.273	270.7	0.366	125	14.76	33.97	25.251	272.9	0.365	125	14.76	33.97	25.251	272.9	0.365
150	13.80	33.98	25.461	252.9	0.433	150	13.52	34.04	25.565	243.0	0.430	150	13.52	34.04	25.565	243.0	0.430
175	12.92	34.03	25.678	232.2	0.495	175	12.82	34.05	25.713	228.9	0.490	175	12.82	34.05	25.713	228.9	0.490
200	11.93	34.04	25.878	213.3	0.551	200	12.41	34.12	25.848	216.1	0.547	200	12.41	34.12	25.848	216.1	0.547
225	11.29	34.12	26.059	196.1	0.604	225	11.71	34.16	26.012	200.5	0.600	225	11.71	34.16	26.012	200.5	0.600
250	11.12	34.21	26.159	186.5	0.653	250	11.20	34.21	26.145	187.9	0.650	250	11.20	34.21	26.145	187.9	0.650
275	10.69	34.22	26.244	178.5	0.700	275	10.88	34.23	26.218	180.9	0.698	275	10.88	34.23	26.218	180.9	0.698
300	10.29	34.19	26.291	174.0	0.746	300	10.52	34.22	26.274	175.6	0.744	300	10.52	34.22	26.274	175.6	0.744
350	9.49	34.14	26.367	164.9	0.834	350	9.42	34.13	26.390	164.6	0.833	350	9.42	34.13	26.390	164.6	0.833
400	8.61	34.10	26.496	154.5	0.917	400	8.59	34.07	26.476	156.5	0.916	400	8.59	34.07	26.476	156.5	0.916
450	7.64	34.03	26.587	145.9	0.996	450	7.87	34.04	26.561	148.4	0.996	450	7.87	34.04	26.561	148.4	0.996
500	6.87	34.00	26.671	137.9	1.071	500	6.88	33.98	26.654	139.5	1.072	500	6.88	33.98	26.654	139.5	1.072
550	6.09	33.98	26.758	129.7	1.141	550	6.23	33.97	26.732	132.1	1.144	550	6.23	33.97	26.732	132.1	1.144
600	5.26	33.99	26.868	119.3	1.207	600	5.45	33.97	26.829	122.9	1.211	600	5.45	33.97	26.829	122.9	1.211
650	4.67	34.02	26.959	110.7	1.268	650	4.85	34.00	26.923	114.1	1.274	650	4.85	34.00	26.923	114.1	1.274
700	4.39	34.07	27.029	104.0	1.325	700	4.55	34.04	26.988	107.9	1.332	700	4.55	34.04	26.988	107.9	1.332
750	4.18	34.12	27.091	98.1	1.379	750	4.29	34.09	27.055	101.5	1.388	750	4.29	34.09	27.055	101.5	1.388
800	4.03	34.17	27.146	92.9	1.430	800	4.12	34.15	27.121	95.3	1.441	800	4.12	34.15	27.121	95.3	1.441
850	3.90	34.22	27.199	87.9	1.479	850	3.97	34.20	27.176	90.1	1.491	850	3.97	34.20	27.176	90.1	1.491
900	3.72	34.26	27.249	83.1	1.525	900	3.81	34.24	27.224	85.5	1.539	900	3.81	34.24	27.224	85.5	1.539
950	3.59	34.30	27.293	78.9	1.569	950	3.72	34.29	27.273	80.9	1.584	950	3.72	34.29	27.273	80.9	1.584
1000	3.47	34.35	27.345	74.0	1.611	1000	3.66	34.34	27.316	76.7	1.627	1000	3.66	34.34	27.316	76.7	1.627
1100	3.28	34.40	27.403	68.5	1.690	1100	3.45	34.39	27.379	70.8	1.709	1100	3.45	34.39	27.379	70.8	1.709
1200	3.11	34.44	27.451	64.0	1.765	1200	3.24	34.42	27.423	66.7	1.773	1200	3.24	34.42	27.423	66.7	1.773

30						INDOPAC LEG I					
LATITUDE	LONGITUDE	MO/DAY/YR	START TIME			LATITUDE	LONGITUDE	MO/DAY/YR	START TIME		
34 59.8N	151 00.4W	04/04/76	1316 GMT								
Z	T	S	SIGMA T	DT	DD	Z	T	S	SIGMA T	DT	DD
0	17.24	34.28	24.925	303.9	0.000	0	17.24	34.28	24.925	303.9	0.000
10	17.27	34.30	24.933	303.1	0.030	10	17.27	34.30	24.933	303.1	0.030
20	17.29	34.28	24.913	305.0	0.061	20	17.29	34.28	24.913	305.0	0.061
30	17.29	34.28	24.913	305.0	0.091	30	17.29	34.28	24.913	305.0	0.091
40	17.29	34.28	24.913	305.0	0.122	40	17.29	34.28	24.913	305.0	0.122
50	17.29	34.28	24.913	305.0	0.153	50	17.29	34.28	24.913	305.0	0.153
75	17.30	34.28	24.911	305.2	0.229	75	17.30	34.28	24.911	305.2	0.229
100	16.75	34.21	24.987	298.0	0.306	100	16.75	34.21	24.987	298.0	0.306
125	14.46	34.11	25.423	256.5	0.376	125	14.46	34.11	25.423	256.5	0.376
150	12.83	34.19	25.819	218.8	0.436	150	12.83	34.19	25.819	218.8	0.436
175	12.07	34.16	25.944	207.0	0.490	175	12.07	34.16	25.944	207.0	0.490
200	11.45	34.15	26.052	196.7	0.542	200	11.45	34.15	26.052	196.7	0.542
225	11.14	34.19	26.140	188.3	0.591	225	11.14	34.19	26.140	188.3	0.591
250	10.45	34.15	26.232	179.6	0.638	250	10.45	34.15	26.232	179.6	0.638
275	9.96	34.13	26.301	173.1	0.684	275	9.96	34.13	26.301	173.1	0.684
300	9.59	34.12	26.355	168.0	0.728	300	9.59	34.12	26.355	168.0	0.728
350	9.07	34.14	26.455	158.4	0.813	350	9.07	34.14	26.455	158.4	0.813
400	8.37	34.08	26.518	152.5	0.894	400	8.37	34.08	26.518	152.5	0.894
450	7.41	34.02	26.612	143.5	0.972	450	7.41	34.02	26.612	143.5	0.972
500	6.54	33.99	26.708	134.5	1.045	500	6.54	33.99	26.708	134.5	1.045
550	5.82	33.98	26.792	126.5	1.113	550	5.82	33.98	26.792	126.5	1.113
600	5.18	33.99	26.877	118.4	1.178	600	5.18	33.99	26.877	118.4	1.178
650	4.62	34.03	26.972	109.4	1.238	650	4.62	34.03	26.972	109.4	1.238
700	4.38	34.08	27.058	103.2	1.295	700	4.38	34.08	27.058	103.2	1.295
750	4.16	34.14	27.109	96.4	1.348	750	4.16	34.14	27.109	96.4	1.348
800	4.00	34.20	27.173	90.3	1.398	800	4.00	34.20	27.173	90.3	1.398
850	3.86	34.24	27.219	86.0	1.446	850	3.86	34.24	27.219	86.0	1.446
900	3.73	34.28	27.264	81.7	1.491	900	3.73	34.28	27.264	81.7	1.491
950	3.66	34.32	27.302	78.1	1.535	950	3.66	34.32	27.302	78.1	1.535
1000	3.53	34.35	27.337	74.8	1.577	1000	3.53	34.35	27.337	74.8	1.577
1100	3.34	34.41	27.405	69.3	1.657	1100	3.34	34.41	27.405	69.3	1.657
1200	3.13	34.45	27.457	63.4	1.731	1200	3.13	34.45	27.457	63.4	1.731

RV THOMAS WASHINGTON

INDOPAC LEG I

31

	LATITUDE 33 00.4N	LONGITUDE 152 01.8E	MO/DAY/YR 4/ 4/76	MESSENGER 2042 GMT	TIME	BOTTOM 5636M	WIND 350	SPEED 15KT	WEATHER 1	DOMINANT WAVES 350 6 6					
Z	T	S	Q2	P04	SI03	N02	N03	DT	Z	T	S	Q2	SIGT	DT	DD
1	17.29	34.332	5.60	0.03	4.8	0.00	0.0	301.2	0	17.29	34.332	5.60	24.953	301.2	0.000
10	17.30	34.332	5.58	0.09	4.8	0.00	0.0	301.4	10	17.30	34.332	5.58	24.950	301.4	0.030
20	17.29	34.333	5.58	0.10	4.7	0.00	0.0	301.1	20	17.29	34.333	5.58	24.953	301.1	0.060
30	17.30	34.332	5.58	0.09	4.7	0.00	0.0	301.4	30	17.30	34.332	5.58	24.950	301.4	0.091
49	17.29	34.333	5.59	0.08	4.7	0.00	0.0	301.1	50	17.29	34.334	5.59	24.953	301.1	0.151
74	17.28	34.331	5.58	0.09	4.6	0.00	0.0	301.1	75	17.28	34.332	5.58	24.954	301.1	0.227
97	17.29	34.331	5.59	0.02	4.6	0.00	0.0	301.3	100	17.28	34.331	5.60	24.954	301.1	0.303
122	16.22	34.184	5.64	0.08	5.4	0.00	0.0	238.2	125	15.84	34.157	5.63	25.154	282.0	0.377
146	13.08	34.027	5.48	0.26	7.1	0.06	2.4	235.5	150	12.79	34.021	5.45	25.696	230.5	0.442
194	11.09	34.025	5.12	0.66	11.0	0.00	9.6	199.6	200	10.93	34.038	5.09	26.059	196.0	0.550
242	10.10	34.118	4.92	1.05	17.3	0.00	14.7	176.3	250	9.98	34.124	4.91	26.293	173.9	0.645
291	9.10	34.124	4.86	1.12	22.4	0.00	16.7	164.7	300	9.27	34.120	4.85	26.406	163.1	0.732
367	7.96	34.048	4.44	1.51	33.7	0.00	21.5	149.0	400	7.71	34.036	4.27	26.580	146.5	0.893
482	6.21	33.980	3.09	2.04	57.3	0.00	50.4	131.1	500	5.96	33.978	2.90	26.772	128.3	1.037
579	5.08	33.995	2.17	2.34	76.0	0.00	36.4	116.9	600	4.89	34.010	1.97	26.925	113.8	1.165
674	4.38	34.079	1.30	2.87	96.7	0.00	40.5	103.2	700	4.28	34.113	1.07	27.074	99.7	1.278
770	4.07	34.198	0.58	2.95	113.6	0.00	43.1	91.2	800	3.97	34.224	0.48	27.194	88.3	1.378
865	3.77	34.272	0.36	3.14	125.1	0.00	44.1	82.7	1000	3.51	34.383	0.30	27.367	72.0	1.553
960	3.59	34.354	0.27	3.19	133.8	0.00	44.0	74.8							
1155	3.14	34.453	0.43	3.26	147.9	0.00	44.4	63.3							

RV THOMAS WASHINGTON

INDOPAC LEG I

32

	LATITUDE 34 59.5N	LONGITUDE 153 02.1W	MO/DAY/YR 4/ 5/76	MESSENGER 0308 GMT	TIME	BOTTOM 5811M	WIND 300	SPEED 11KT	WEATHER 2	DOMINANT WAVES 330 11 14					
Z	T	S	02	P04	SI03	N02	N03	DT	Z	T	S	02	SIGT	DT	DD
1	16.94	34.317	5.65					294.4	0	16.94	34.317	5.65	25.024	294.4	0.000
11	16.93	34.314	5.65					294.4	10	16.93	34.315	5.65	25.024	294.4	0.029
32	16.75	34.277	5.67					294.0	20	16.90	34.306	5.65	25.025	294.3	0.059
51	16.44	34.185	5.72					292.9	30	16.61	34.284	5.67	25.028	294.0	0.088
77	16.31	34.169	5.72					291.2	50	16.46	34.191	5.72	25.039	293.0	0.147
102	15.15	34.113	5.73					270.5	75	16.32	34.171	5.72	25.056	291.3	0.221
128	13.41	34.039	5.54					240.9	100	15.27	34.119	5.73	25.253	272.6	0.292
152	12.46	34.103	5.47					218.3	125	13.61	34.045	5.56	25.550	244.4	0.357
177	11.71	34.119	5.37					203.5	150	12.52	34.098	5.47	25.808	219.9	0.416
203	11.39	34.166	5.33					194.4	200	11.42	34.161	5.33	26.066	195.3	0.522
252	10.63	34.211	5.14					178.1	250	10.66	34.211	5.15	26.241	178.7	0.618
301	9.85	34.163	5.12					168.9	300	9.87	34.165	5.12	26.343	169.0	0.708
400	8.20	34.070	4.65					150.8	400	8.20	34.070	4.65	26.536	150.8	0.875
498	6.46	33.982	3.50					134.1	500	6.43	33.983	3.48	26.716	133.7	1.024
597	5.14	33.993	2.44					117.7	600	5.11	33.995	2.41	26.888	117.3	1.156
694	4.37	34.052	1.61					105.2	700	4.34	34.059	1.55	27.025	104.4	1.274
791	3.99	34.157	0.81					93.5	800	3.96	34.166	0.76	27.149	92.6	1.379
890	3.71	34.243	0.43					84.3	1000	3.44	34.330	0.30	27.331	75.2	1.561
989	3.46	34.323	0.30					76.0	1200	3.05	34.434	0.36	27.451	63.9	1.716
1191	3.07	34.430	0.36					64.4							

RV THOMAS WASHINGTON

INDOPAC LEG I

33

LATITUDE		LONGITUDE		MO/DAY/YR		MESSENGER		TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES		
34 59.9N		153 59.9W		4/ 5/76		0910		GMT	5777M	290	11KT				
Z	T	S	02	P04	SI03	N02	N03	DT	Z	T	S	02	SIGT	DT	DD
2	15.86	34.133	5.79	0.07	5.3	0.00	0.0	284.1	0	15.86	34.133	5.79	25.133	284.1	0.000
12	15.86	34.134	5.78	0.08	5.3	0.00	0.0	284.0	10	15.86	34.135	5.78	25.134	284.0	0.028
32	15.87	34.134	5.77	0.08	5.2	0.00	0.0	284.2	20	15.86	34.135	5.78	25.133	284.1	0.057
51	15.87	34.136	5.76	0.09	5.1	0.00	0.0	284.1	30	15.87	34.135	5.77	25.132	284.2	0.085
75	15.81	34.123	5.77	0.09	5.1	0.00	0.0	283.7	50	15.87	34.137	5.76	25.133	284.1	0.142
101	14.55	34.073	5.75	0.15	6.3	0.00	0.0	261.1	75	15.01	34.123	5.77	25.137	283.7	0.214
115	13.79	34.175	5.49	0.36	7.4	0.06	3.0	238.4	100	14.61	34.073	5.75	25.361	262.4	0.283
126	12.79	34.130	5.48	0.41	8.0	0.04	4.2	222.4	125	12.08	34.137	5.48	25.768	223.7	0.344
135	12.31	34.120	5.45	0.52	8.8	0.01	5.8	214.3	150	11.93	34.125	5.40	25.943	207.0	0.399
150	11.93	34.125	5.40	0.58	9.8	0.01	7.4	207.0	200	11.34	34.206	5.28	26.116	190.6	0.500
174	11.60	34.155	5.37	0.68	11.7	0.01	9.0	198.9	250	10.68	34.217	5.20	26.242	178.7	0.595
200	11.34	34.206	5.28	0.73	13.3	0.00	10.4	190.6	300	9.94	34.177	5.13	26.339	169.4	0.685
298	9.97	34.177	5.13	1.00	19.9	0.00	14.8	169.8	400	8.46	34.094	4.69	26.514	152.8	0.853
395	8.54	34.099	4.72	1.35	28.9	0.00	19.3	153.6	500	6.78	34.002	3.76	26.684	136.7	1.005
493	6.90	34.004	3.86	1.67	48.9	0.00	26.5	138.0	600	5.22	34.000	2.42	26.879	118.2	1.140
592	5.32	33.996	2.49	2.47	72.2	0.00	35.0	119.5	700	4.33	34.072	1.59	27.035	103.4	1.257
690	4.39	34.061	1.69	2.83	94.0	0.01	40.2	104.7	800	3.93	34.174	0.78	27.159	91.6	1.361
788	3.97	34.162	0.81	3.06	111.2	0.00	43.2	92.9	1000	3.57	34.336	0.33	27.342	74.3	1.541
982	3.41	34.325	0.35	3.21	135.7	0.00	45.4	75.5	1200	3.03	34.447	0.31	27.464	62.8	1.694
1174	3.07	34.433	0.31	3.25	148.6	0.13	45.4	64.2							

31						INDOPAC LEG I						32					
LATITUDE	LONGITUDE	MO/DAY/YR	START TIME			LATITUDE	LONGITUDE	MO/DAY/YR	START TIME			LATITUDE	LONGITUDE	MO/DAY/YR	START TIME		
35 00.4N	152 01.8W	04/04/76	1950 GMT			34 59.5N	153 02.1W	04/05/76	0233 GMT								
Z	T	S	SIGMA T	DT	DD	Z	T	S	SIGMA T	DT	DD	Z	T	S	SIGMA T	DT	DD
0	17.25	34.34	24.968	299.7	0.000	0	16.93	34.31	25.021	294.7	0.000	0	16.93	34.31	25.021	294.7	0.000
10	17.26	34.34	24.966	300.0	0.030	10	16.93	34.31	25.021	294.7	0.029	10	16.93	34.31	25.021	294.7	0.029
20	17.26	34.34	24.966	300.0	0.060	20	16.87	34.29	25.020	294.8	0.059	20	16.87	34.29	25.020	294.8	0.059
30	17.27	34.34	24.964	300.2	0.090	30	16.76	34.26	25.023	294.5	0.089	30	16.76	34.26	25.023	294.5	0.089
40	17.27	34.34	24.964	300.2	0.120	40	16.54	34.20	25.028	294.0	0.118	40	16.54	34.20	25.028	294.0	0.118
50	17.27	34.34	24.964	300.2	0.150	50	16.42	34.18	25.041	292.8	0.148	50	16.42	34.18	25.041	292.8	0.148
75	17.27	34.34	24.964	300.2	0.226	75	16.26	34.16	25.062	290.8	0.221	75	16.26	34.16	25.062	290.8	0.221
100	17.28	34.34	24.961	300.4	0.302	100	15.12	34.11	25.280	270.1	0.292	100	15.12	34.11	25.280	270.1	0.292
125	15.58	34.16	25.216	276.1	0.375	125	13.33	34.03	25.596	240.1	0.356	125	13.33	34.03	25.596	240.1	0.356
150	12.82	34.00	25.675	232.6	0.439	150	12.28	34.09	25.849	215.9	0.414	150	12.28	34.09	25.849	215.9	0.414
175	11.47	33.99	25.925	208.8	0.495	175	11.68	34.11	25.979	203.7	0.468	175	11.68	34.11	25.979	203.7	0.468
200	10.83	34.03	26.072	194.8	0.547	200	11.42	34.15	26.058	196.1	0.519	200	11.42	34.15	26.058	196.1	0.519
225	10.19	34.07	26.215	181.3	0.595	225	10.94	34.18	26.168	185.6	0.568	225	10.94	34.18	26.168	185.6	0.568
250	10.04	34.15	26.303	172.9	0.641	250	10.68	34.20	26.230	179.8	0.615	250	10.68	34.20	26.230	179.8	0.615
275	9.46	34.10	26.361	167.4	0.684	275	10.29	34.19	26.291	174.0	0.660	275	10.29	34.19	26.291	174.0	0.660
300	9.19	34.12	26.420	161.8	0.727	300	9.95	34.15	26.318	171.5	0.705	300	9.95	34.15	26.318	171.5	0.705
350	8.35	34.07	26.513	153.0	0.809	350	9.17	34.13	26.431	160.7	0.791	350	9.17	34.13	26.431	160.7	0.791
400	7.60	34.03	26.593	145.4	0.886	400	8.34	34.08	26.522	152.1	0.873	400	8.34	34.08	26.522	152.1	0.873
450	6.61	33.98	26.691	136.1	0.960	450	7.37	34.02	26.618	143.0	0.950	450	7.37	34.02	26.618	143.0	0.950
500	5.89	33.98	26.783	127.3	1.029	500	6.62	33.99	26.697	135.5	1.023	500	6.62	33.99	26.697	135.5	1.023
550	5.20	33.99	26.875	118.6	1.094	550	5.77	33.97	26.790	126.6	1.092	550	5.77	33.97	26.790	126.6	1.092
600	4.78	34.02	26.946	111.8	1.154	600	5.18	33.99	26.877	118.4	1.157	600	5.18	33.99	26.877	118.4	1.157
650	4.47	34.06	27.012	105.6	1.212	650	4.63	34.02	26.965	110.2	1.217	650	4.63	34.02	26.965	110.2	1.217
700	4.25	34.12	27.083	98.8	1.266	700	4.35	34.05	27.017	105.1	1.275	700	4.35	34.05	27.017	105.1	1.275
750	4.10	34.18	27.147	92.8	1.317	750	4.13	34.11	27.088	98.4	1.329	750	4.13	34.11	27.088	98.4	1.329
800	3.93	34.22	27.196	88.2	1.366	800	3.95	34.16	27.146	92.9	1.380	800	3.95	34.16	27.146	92.9	1.380
850	3.80	34.26	27.241	83.9	1.412	850	3.79	34.22	27.210	86.8	1.428	850	3.79	34.22	27.210	86.8	1.428
900	3.64	34.30	27.289	79.4	1.457	900	3.67	34.25	27.246	83.4	1.474	900	3.67	34.25	27.246	83.4	1.474
950	3.53	34.34	27.331	75.3	1.499	950	3.53	34.29	27.291	79.1	1.519	950	3.53	34.29	27.291	79.1	1.519
1000	3.50	34.38	27.366	72.1	1.540	1000	3.40	34.33	27.336	74.9	1.561	1000	3.40	34.33	27.336	74.9	1.561
1100	3.28	34.43	27.427	66.3	1.617	1100	3.20	34.38	27.394	69.3	1.641	1100	3.20	34.38	27.394	69.3	1.641
1169	3.13	34.46	27.465	62.7	1.667	1200	3.05	34.43	27.448	64.2	1.715						

33						INDOPAC LEG I					
LATITUDE	LONGITUDE	MO/DAY/YR	START TIME			LATITUDE	LONGITUDE	MO/DAY/YR	START TIME		
34 59.9N	153 59.9W	04/05/76	0815 GMT								
Z	T	S	SIGMA T	DT	DD	Z	T	S	SIGMA T	DT	DD
0	15.81	34.13	25.142	283.2	0.000	0	15.81	34.13	25.142	283.2	0.000
10	15.82	34.13	25.140	283.4	0.028	10	15.82	34.13	25.140	283.4	0.028
20	15.83	34.13	25.137	283.7	0.057	20	15.83	34.13	25.137	283.7	0.057
30	15.84	34.13	25.135	283.9	0.085	30	15.84	34.13	25.135	283.9	0.085
40	15.83	34.13	25.137	283.7	0.114	40	15.83	34.13	25.137	283.7	0.114
50	15.80	34.12	25.136	283.7	0.142	50	15.80	34.12	25.136	283.7	0.142
75	15.78	34.12	25.141	283.3	0.214	75	15.78	34.12	25.141	283.3	0.214
100	14.78	34.05	25.308	267.4	0.283	100	14.78	34.05	25.308	267.4	0.283
125	12.79	34.11	25.766	223.9	0.345	125	12.79	34.11	25.766	223.9	0.345
150	11.89	34.12	25.947	206.7	0.400	150	11.89	34.12	25.947	206.7	0.400
175	11.54	34.16	26.043	197.5	0.451	175	11.54	34.16	26.043	197.5	0.451
200	11.31	34.20	26.117	190.5	0.501	200	11.31	34.20	26.117	190.5	0.501
225	10.96	34.21	26.188	183.8	0.549	225	10.96	34.21	26.188	183.8	0.549
250	10.65	34.21	26.243	178.5	0.596	250	10.65	34.21	26.243	178.5	0.596
275	10.25	34.18	26.290	174.1	0.641	275	10.25	34.18	26.290	174.1	0.641
300	9.86	34.17	26.349	168.5	0.685	300	9.86	34.17	26.349	168.5	0.685
350	9.11	34.13	26.441	159.8	0.771	350	9.11	34.13	26.441	159.8	0.771
400	8.37	34.08	26.518	152.5	0.852	400	8.37	34.08	26.518	152.5	0.852
450	7.60	34.04	26.600	144.6	0.930	450	7.60	34.04	26.600	144.6	0.930
500	6.75	34.00	26.688	136.4	1.004	500	6.75	34.00	26.688	136.4	1.004
550	5.87	33.99	26.794	126.3	1.073	550	5.87	33.99	26.794	126.3	1.073
600	5.17	34.00	26.886	117.6	1.138	600	5.17	34.00	26.886	117.6	1.138
650	4.65	34.03	26.969	109.7	1.198	650	4.65	34.03	26.969	109.7	1.198
700	4.28	34.08	27.048	102.2	1.254	700	4.28	34.08	27.048	102.2	1.254
750	4.00	34.14	27.125	94.9	1.306	750	4.00	34.14	27.125	94.9	1.306
800	3.89	34.18	27.168	90.8	1.356	800	3.89	34.18	27.168	90.8	1.356
850	3.73	34.23	27.224	85.5	1.404	850	3.73	34.23	27.224	85.5	1.404
900	3.59	34.27	27.270	81.2	1.449	900	3.59	34.27	27.270	81.2	1.449
950	3.48	34.30	27.304	77.9	1.492	950	3.48	34.30	27.304	77.9	1.492
1000	3.37	34.33	27.339	74.6	1.534	1000	3.37	34.33	27.339	74.6	1.534
1100	3.18	34.39	27.404	68.4	1.613	1100	3.18	34.39	27.404	68.4	1.613
1200	3.04	34.43	27.449	64.2	1.687	1200	3.04	34.43	27.449	64.2	1.687

RV THOMAS WASHINGTON						INDOPAC LEG 1									
LATITUDE		LONGITUDE		MO/DAY/YR		MESSENGER		TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES		
34 59.9N		155 04.2W		4/ 5/76		1547 GMT			5765M	270	23KT	1	270 7 7		
Z	T	S	O2	P04	S103	N02	N03	DT	Z	T	S	O2	SIGT	DT	DD
1	15.52	34.062	5.83					282.0	0	15.52	34.062	5.83	25.155	282.0	0.000
10	15.51	34.059	5.84					282.0	10	15.51	34.059	5.84	25.155	282.0	0.028
21	15.51	34.061	5.83					281.9	20	15.51	34.062	5.83	25.156	281.9	0.056
31	15.52	34.059	5.83					282.2	30	15.52	34.060	5.83	25.153	282.2	0.083
50	15.51	34.059	5.84					282.0	50	15.51	34.059	5.84	25.155	282.0	0.141
75	15.10	34.011	5.86					276.9	75	15.10	34.011	5.86	25.208	276.9	0.212
100	14.78	34.040	5.83					268.2	100	14.78	34.040	5.83	25.300	268.2	0.280
124	12.13	34.015	5.55					218.7	125	12.11	34.025	5.54	25.831	217.7	0.342
149	11.59	34.105	5.41					202.4	150	11.58	34.108	5.41	25.996	202.0	0.395
199	11.03	34.175	5.24					187.5	200	11.02	34.177	5.24	26.151	187.3	0.495
248	10.49	34.206	5.14					176.1	250	10.46	34.206	5.14	26.273	175.8	0.588
297	9.74	34.163	5.11					167.1	300	9.69	34.161	5.10	26.369	166.6	0.676
396	8.11	34.067	4.57					149.7	400	8.03	34.063	4.52	26.555	149.0	0.841
495	6.27	33.984	3.33					131.6	500	6.20	33.984	3.27	26.746	130.8	0.987
595	5.16	33.994	2.34					117.9	600	5.12	33.998	2.30	26.889	117.2	1.118
693	4.46		1.62						700	4.42	34.069	1.56	27.023	104.5	1.235
791	4.00	34.151	0.85					94.0	800	3.97	34.160	0.80	27.144	93.1	1.341
890	3.70	34.244	0.44					84.2	1000	3.36	34.333	0.26	27.341	74.4	1.523
989	3.39	34.325	0.26					75.2	1200	3.01	34.431	0.28	27.453	63.8	1.676
1187	3.03	34.425	0.28					64.4							

RV THOMAS WASHINGTON										INDOPAC LEG 1					
LATITUDE		LONGITUDE		MO/DAY/YR		MESSENGER		TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES		
34 59.7N		156 00.5W		4/ 6/76		0016 GMT			5771M	290	30KT	2	300 12 7		
Z	T	S	O2	P04	S103	N02	N03	DT	Z	T	S	O2	SIGT	DT	DD
2		34.113	5.83	0.05	5.9	0.00	0.0		0	15.54	34.113	5.83	25.189	278.7	0.000
12	15.54	34.121	5.85	0.05	5.9	0.00	0.0	278.1	10	15.54	34.121	5.83	25.195	278.2	0.028
32	15.53	34.116	5.85	0.05	5.7	0.01	0.0	278.3	20	15.54	34.120	5.84	25.195	278.2	0.056
51	15.56	34.134	5.82	0.05	5.7	0.01	0.0	278.0	30	15.53	34.118	5.85	25.194	278.3	0.084
76	15.52	34.128	5.81	0.04	5.5	0.01	0.0	277.2	50	15.58	34.134	5.82	25.196	278.0	0.139
102	13.77	34.005	5.88	0.04	5.9	0.03	0.0	250.4	75	15.52	34.129	5.81	25.205	277.2	0.209
117	12.25	33.989	5.63	0.47	8.1	0.03	4.3	222.8	100	13.96	34.015	5.87	25.455	253.4	0.276
127	12.00	34.042	5.51	0.50	9.2	0.01	5.9	214.4	125	12.02	34.032	5.53	25.853	215.6	0.336
137	11.81	34.066	5.45	0.63	9.4	0.04	7.1	209.2	150	11.51	34.091	5.38	25.994	202.2	0.389
151	11.49	34.092	5.37	0.71	11.3	0.01	8.6	201.6	200	10.95	34.200	5.21	26.182	184.3	0.487
177	11.33	34.161	5.29	0.77	12.0	0.01	9.8	193.8	250	10.24	34.214	5.10	26.316	171.6	0.579
202	10.91	34.202	5.20	0.91	14.1	0.01	11.8	183.5	300	9.61	34.177	5.01	26.396	164.1	0.666
300	9.61	34.177	5.01	1.11	21.9	0.00	16.3	164.1	400	8.18	34.089	4.58	26.553	149.2	0.829
397	8.24	34.092	4.61	1.52	31.0	0.01	20.7	149.7	500	6.19	33.994	3.40	26.755	129.9	0.975
495	6.27	33.994	3.46	2.15	54.0	0.01	29.5	130.8	600	5.01	34.018	2.32	26.918	114.5	1.104
594	5.06	34.014	2.36	2.58	76.7	0.00	36.3	115.3	700	4.34	34.084	1.47	27.045	102.5	1.219
693	4.38	34.076	1.53	2.84	95.0	0.01	40.1	103.5	800	3.83	34.191	0.80	27.182	89.4	1.321
792	3.86	34.183	0.84	3.05	114.6	0.01	43.1	90.3	1000	3.28	34.339	0.34	27.354	73.5	1.498
993	3.30	34.330	0.34	3.21	137.8	0.01	45.3	74.0	1200	2.91	34.434	0.27	27.464	62.7	1.649
1198	2.91	34.433	0.27	3.25	152.5	0.01	45.9	62.8							

RV THOMAS WASHINGTON						INDOPAC LEG 1									
LATITUDE		LONGITUDE		MO/DAY/YR		MESSENGER		TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES		
34 58.6N		157 00.2W		4/ 6/76		0711 GMT			6147M	330	22KT				
Z	T	S	O2	P04	S103	N02	N03	DT	Z	T	S	O2	SIGT	DT	DD
5	15.29	34.022	5.89					280.1	0	15.29	34.022	5.89	25.175	280.1	0.000
14	15.28	34.022	5.87					279.9	10	15.28	34.023	5.88	25.176	280.0	0.028
25	15.30	34.023	5.87					280.2	20	15.29	34.024	5.87	25.175	280.1	0.056
44	15.24	34.019	5.87					279.2	30	15.28	34.023	5.87	25.176	280.0	0.084
69	14.73	33.980	5.92					271.5	50	15.11	34.010	5.88	25.204	277.3	0.140
94	14.43	33.983	5.94					265.2	75	14.71	33.980	5.92	25.269	271.1	0.209
118	12.85	33.994	5.66					233.6	100	14.06	33.981	5.88	25.407	258.0	0.276
144	12.08	34.083	5.47					212.8	125	12.37	34.019	5.60	25.738	226.6	0.337
191	11.45	34.191	5.27					193.6	150	11.94	34.108	5.43	25.928	208.5	0.392
239	10.70	34.219	5.16					178.7	200	11.52	34.203	5.24	26.117	190.5	0.494
288	9.83	34.163	5.10					168.6	250	10.51	34.211	5.15	26.268	176.1	0.588
385	8.32	34.079	4.65					151.8	300	9.64	34.153	5.07	26.371	166.4	0.677
481	6.67	33.996	3.76					135.6	400	8.06	34.064	4.54	26.551	149.4	0.841
578	5.16	33.995	2.37					117.8	500	6.34	33.990	3.49	26.733	132.0	0.989
675	4.40	34.061	1.52					104.8	600	4.94	34.007	2.15	26.917	114.6	1.119
772	3.95	34.157	0.85					93.1	700	4.26	34.087	1.32	27.055	101.6	1.233
871	3.65	34.233	0.62					84.5	800	3.85	34.182	0.76	27.172	90.4	1.336
972	3.40	34.300	0.38					77.2	1000	3.34	34.319	0.37	27.332	75.4	1.516
1179	3.05	34.421	0.31					64.9	1200	3.02	34.433	0.30	27.453	63.8	1.670

34						INDOPAC LEG I						35					
LATITUDE		LONGITUDE		MO/DAY/YR		START TIME		LATITUDE		LONGITUDE		MO/DAY/YR		START TIME			
34 59.9N		155 02.2W		04/05/76		1402 GMT		34 59.7N		156 00.5W		04/05/76		2332 GMT			
Z	T	S	SIGMA T	DT	DD	Z	T	S	SIGMA T	DT	DD	Z	T	S	SIGMA T	DT	DD
0	15.49	34.07	25.167	280.8	0.000	0	15.48	34.10	25.193	278.4	0.000	0	15.48	34.10	25.193	278.4	0.000
10	15.49	34.07	25.167	280.8	0.028	10	15.47	34.10	25.195	278.2	0.028	10	15.47	34.10	25.195	278.2	0.028
20	15.49	34.07	25.167	280.8	0.056	20	15.49	34.11	25.198	277.9	0.056	20	15.49	34.11	25.198	277.9	0.056
30	15.49	34.07	25.167	280.8	0.084	30	15.50	34.11	25.196	278.1	0.084	30	15.50	34.11	25.196	278.1	0.084
40	15.50	34.07	25.165	281.0	0.113	40	15.50	34.11	25.196	278.1	0.111	40	15.50	34.11	25.196	278.1	0.111
50	15.50	34.07	25.165	281.0	0.141	50	15.51	34.12	25.201	277.6	0.139	50	15.51	34.12	25.201	277.6	0.139
75	15.30	34.04	25.187	279.0	0.211	75	15.52	34.13	25.207	277.0	0.209	75	15.52	34.13	25.207	277.0	0.209
100	14.90	34.03	25.266	271.4	0.281	100	14.30	34.04	25.403	258.4	0.277	100	14.30	34.04	25.403	258.4	0.277
125	12.51	34.01	25.743	226.1	0.344	125	12.00	34.04	25.864	214.5	0.337	125	12.00	34.04	25.864	214.5	0.337
150	11.66	34.10	25.975	204.0	0.398	150	11.50	34.10	26.004	201.2	0.389	150	11.50	34.10	26.004	201.2	0.389
175	11.22	34.15	26.095	192.7	0.449	175	11.16	34.15	26.105	191.6	0.439	175	11.16	34.15	26.105	191.6	0.439
200	11.02	34.18	26.154	187.0	0.497	200	10.86	34.18	26.183	184.3	0.487	200	10.86	34.18	26.183	184.3	0.487
225	10.66	34.20	26.234	179.4	0.544	225	10.48	34.19	26.258	177.2	0.534	225	10.48	34.19	26.258	177.2	0.534
250	10.36	34.19	26.279	175.2	0.590	250	10.14	34.19	26.317	171.6	0.579	250	10.14	34.19	26.317	171.6	0.579
275	9.97	34.18	26.338	169.6	0.634	275	9.85	34.17	26.350	168.4	0.623	275	9.85	34.17	26.350	168.4	0.623
300	9.70	34.16	26.368	166.7	0.678	300	9.47	34.15	26.398	163.9	0.666	300	9.47	34.15	26.398	163.9	0.666
350	8.85	34.11	26.467	157.3	0.762	350	8.75	34.10	26.474	156.6	0.749	350	8.75	34.10	26.474	156.6	0.749
400	8.10	34.06	26.543	150.1	0.842	400	7.94	34.07	26.574	147.1	0.828	400	7.94	34.07	26.574	147.1	0.828
450	7.16	34.01	26.639	141.0	0.919	450	7.00	34.01	26.661	138.9	0.903	450	7.00	34.01	26.661	138.9	0.903
500	6.29	33.98	26.733	132.1	0.990	500	6.11	33.99	26.764	129.2	0.973	500	6.11	33.99	26.764	129.2	0.973
550	5.70	33.98	26.807	125.1	1.058	550	5.47	33.98	26.835	122.4	1.039	550	5.47	33.98	26.835	122.4	1.039
600	5.16	33.99	26.879	118.2	1.122	600	4.96	34.01	26.916	114.7	1.102	600	4.96	34.01	26.916	114.7	1.102
650	4.68	34.03	26.965	110.0	1.182	650	4.56	34.04	26.987	108.0	1.161	650	4.56	34.04	26.987	108.0	1.161
700	4.42	34.06	27.018	105.1	1.239	700	4.27	34.09	27.057	101.3	1.216	700	4.27	34.09	27.057	101.3	1.216
750	4.10	34.11	27.091	98.1	1.294	750	3.99	34.14	27.126	94.8	1.269	750	3.99	34.14	27.126	94.8	1.269
800	3.94	34.16	27.147	92.8	1.345	800	3.78	34.19	27.187	89.0	1.318	800	3.78	34.19	27.187	89.0	1.318
850	3.78	34.21	27.203	87.5	1.393	850	3.64	34.23	27.233	84.7	1.365	850	3.64	34.23	27.233	84.7	1.365
900	3.64	34.26	27.257	82.4	1.439	900	3.50	34.27	27.278	80.3	1.409	900	3.50	34.27	27.278	80.3	1.409
950	3.48	34.30	27.304	77.9	1.483	950	3.37	34.30	27.315	76.9	1.452	950	3.37	34.30	27.315	76.9	1.452
1000	3.34	34.33	27.341	74.4	1.525	1000	3.27	34.33	27.348	73.7	1.493	1000	3.27	34.33	27.348	73.7	1.493
1100	3.17	34.38	27.397	69.1	1.604	1100	3.03	34.38	27.410	67.8	1.571	1100	3.03	34.38	27.410	67.8	1.571
1189	3.02	34.42	27.443	64.7	1.670	1200	2.89	34.44	27.471	62.1	1.644	1200	2.89	34.44	27.471	62.1	1.644

36						INDOPAC LEG I					
LATITUDE		LONGITUDE		MO/DAY/YR		START TIME					
34 58.6N		157 00.2W		04/06/76		0628 GMT					
Z	T	S	SIGMA T	DT	DD	Z	T	S	SIGMA T	DT	DD
0	15.29	34.04	25.189	278.8	0.000	0	15.29	34.04	25.189	278.8	0.000
10	15.30	34.04	25.187	279.0	0.028	10	15.30	34.04	25.187	279.0	0.028
20	15.30	34.04	25.187	279.0	0.056	20	15.30	34.04	25.187	279.0	0.056
30	15.28	34.03	25.183	279.3	0.084	30	15.28	34.03	25.183	279.3	0.084
40	15.24	34.02	25.184	279.2	0.112	40	15.24	34.02	25.184	279.2	0.112
50	15.07	34.00	25.206	277.1	0.140	50	15.07	34.00	25.206	277.1	0.140
75	14.63	33.98	25.286	269.5	0.209	75	14.63	33.98	25.286	269.5	0.209
100	14.05	33.99	25.417	257.1	0.275	100	14.05	33.99	25.417	257.1	0.275
125	12.45	34.05	25.786	222.0	0.336	125	12.45	34.05	25.786	222.0	0.336
150	11.78	34.11	25.960	205.4	0.390	150	11.78	34.11	25.960	205.4	0.390
175	11.49	34.16	26.053	196.6	0.441	175	11.49	34.16	26.053	196.6	0.441
200	11.30	34.20	26.119	190.4	0.491	200	11.30	34.20	26.119	190.4	0.491
225	10.75	34.21	26.226	180.2	0.534	225	10.75	34.21	26.226	180.2	0.534
250	10.35	34.19	26.280	175.0	0.584	250	10.35	34.19	26.280	175.0	0.584
275	9.96	34.17	26.332	170.1	0.628	275	9.96	34.17	26.332	170.1	0.628
300	9.58	34.14	26.372	166.3	0.672	300	9.58	34.14	26.372	166.3	0.672
350	8.76	34.10	26.473	156.7	0.756	350	8.76	34.10	26.473	156.7	0.756
400	8.14	34.06	26.537	150.7	0.836	400	8.14	34.06	26.537	150.7	0.836
450	7.27	34.02	26.632	141.7	0.913	450	7.27	34.02	26.632	141.7	0.913
500	6.35	33.99	26.733	132.1	0.984	500	6.35	33.99	26.733	132.1	0.984
550	5.50	33.96	26.831	122.7	1.051	550	5.50	33.96	26.831	122.7	1.051
600	4.90	34.01	26.925	113.9	1.114	600	4.90	34.01	26.925	113.9	1.114
650	4.54	34.04	26.989	107.8	1.172	650	4.54	34.04	26.989	107.8	1.172
700	4.24	34.09	27.061	101.0	1.228	700	4.24	34.09	27.061	101.0	1.228
750	4.03	34.14	27.122	95.2	1.280	750	4.03	34.14	27.122	95.2	1.280
800	3.86	34.18	27.171	90.5	1.330	800	3.86	34.18	27.171	90.5	1.330
850	3.70	34.22	27.219	86.0	1.377	850	3.70	34.22	27.219	86.0	1.377
900	3.56	34.25	27.257	82.4	1.423	900	3.56	34.25	27.257	82.4	1.423
950	3.43	34.28	27.293	78.9	1.467	950	3.43	34.28	27.293	78.9	1.467
1000	3.33	34.32	27.334	75.0	1.509	1000	3.33	34.32	27.334	75.0	1.509
1100	3.11	34.38	27.403	68.5	1.588	1100	3.11	34.38	27.403	68.5	1.588
1200	2.96	34.41	27.440	65.0	1.662	1200	2.96	34.41	27.440	65.0	1.662

RV THOMAS WASHINGTON

INDOPAC LEG 1

37

	LATITUDE	LONGITUDE	MO/DAY/YR		MESSENGER	TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES				
	34 59.5N	158 04.1E	4/ 6/76		1359	GMT	5890M	34U	15KT	1					
Z	T	S	G2	P04	SIG3	N02	N03	DT	Z	T	S	G2	SIGT	DT	DD
0	15.39	34.252	5.91	0.04	6.3	0.00	0.0	265.4	0	15.39	34.252	5.91	25.329	265.4	0.000
9	15.40	34.252	5.80	0.05	6.2	0.00	0.0	265.6	10	15.40	34.253	5.80	25.327	265.6	0.027
29	15.41	34.252	5.84	0.07	6.0	0.00	0.1	265.8	20	15.41	34.253	5.82	25.326	265.7	0.053
50	15.39	34.252	5.83	0.09	5.9	0.00	0.1	265.4	30	15.41	34.253	5.84	25.325	265.8	0.080
75	15.41	34.252	5.84	0.12	6.0	0.00	0.1	265.8	50	15.39	34.252	5.83	25.329	265.4	0.133
101	14.56	34.106	5.83	0.17	6.4	0.04	0.1	258.3	75	15.41	34.252	5.84	25.325	265.8	0.200
115	14.28	34.264	5.46	0.34	7.4	0.25	2.7	241.6	100	14.60	34.114	5.83	25.395	259.1	0.266
125	13.63	34.316	5.31	0.38	8.5	0.07	5.3	225.9	125	13.68	34.316	5.31	25.745	225.9	0.328
136	13.32	34.316	5.26	0.56	9.3	0.04	6.5	218.9	150	12.95	34.345	5.24	25.915	209.7	0.383
150	12.95	34.345	5.24	0.61	9.8	0.01	7.7	209.7	200	11.85	34.266	5.31	26.068	195.2	0.486
175	12.22	34.267	5.32	0.68	11.2	0.01	8.5	201.8	250	11.19	34.261	5.17	26.186	184.0	0.584
200	11.85	34.266	5.31	0.74	12.4	0.01	9.7	195.2	300	10.54	34.241	4.98	26.287	174.4	0.677
299	10.55	34.241	4.98	1.02	18.6	0.01	14.2	174.6	400	8.98	34.142	4.75	26.470	157.1	0.849
397	9.05	34.146	4.76	1.33	28.0	0.00	18.2	157.7	500	6.77	34.005	4.07	26.688	136.3	1.004
494	6.88	34.008	4.16	1.87	47.4	0.00	26.5	137.4	600	5.27	33.993	2.50	26.867	119.3	1.138
593	5.36	33.989	2.59	2.48	71.7	0.00	34.5	120.5	700	4.36	34.063	1.51	27.026	104.3	1.257
690	4.42	34.053	1.59	2.84	94.0	0.00	40.0	105.6	800	3.95	34.159	0.85	27.145	93.0	1.362
787	3.99	34.147	0.91	3.05	110.8	0.03	42.6	94.2	1000	3.42	34.305	0.32	27.313	77.0	1.546
985	3.46	34.296	0.33	3.14	134.8	0.01	44.9	78.0	1200	2.99	34.405	0.24	27.434	65.6	1.704
1188	3.01	34.400	0.24	3.24	151.7	0.01	45.7	66.2							

RV THOMAS WASHINGTON

INDOPAC LEG 1

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LATITUDE		LONGITUDE		MO/DAY/YR		MESSENGER		TIME	BOTTOM		WIND	SPEED	WEATHER	DOMINANT WAVES	
35 00. N		159 00.4W		4/ 6/76		2006		GMT	5917M		36U	7KT		010 7 12	
Z	T	S	G2	P04	SIG3	N02	N03	DT	Z	T	S	G2	SIGT	DT	DD
0	15.59	34.334	5.83					263.6	0	15.59	34.334	5.83	25.346	263.6	0.000
10	15.57	34.331	5.83					263.4	10	15.57	34.331	5.83	25.350	263.4	0.026
21	15.56	34.334	5.83					263.0	20	15.56	34.334	5.83	25.354	263.0	0.053
36	15.59	34.334	5.83					263.6	30	15.58	34.335	5.84	25.351	263.3	0.079
50	15.58	34.333	5.83					263.5	50	15.58	34.333	5.83	25.349	263.5	0.132
60	15.12	34.296	5.83					256.5	75	15.21	34.304	5.83	25.408	257.9	0.198
101	14.86	34.279	5.86					252.3	100	14.87	34.281	5.86	25.464	252.5	0.262
125	13.07	34.317	5.29					214.0	125	13.07	34.317	5.29	25.870	214.0	0.321
135	12.73	34.326	5.26					206.9	150	12.41	34.310	5.30	25.995	202.1	0.374
150	12.41	34.310	5.30					202.1	200	11.68	34.283	5.25	26.113	190.9	0.475
175	11.99	34.311	5.28					194.4	250	11.14	34.262	5.19	26.195	183.1	0.571
200	11.66	34.283	5.25					190.9	300	10.53	34.241	5.10	26.288	174.3	0.663
297	10.58	34.243	5.11					174.9	400	8.77	34.128	4.73	26.493	154.8	0.835
395	8.85	34.153	4.75					155.6	500	7.19	34.030	4.12	26.650	140.0	0.990
494	7.28	34.034	4.16					140.8	600	5.81	33.987	3.17	26.798	125.9	1.130
591	5.93	33.985	3.29					127.4	700	4.72	34.041	1.88	26.969	109.7	1.255
688	4.82	34.030	2.01					111.5	800	4.07	34.136	1.03	27.113	96.0	1.365
786	4.14	34.121	1.12					97.7	1000	3.45	34.304	0.37	27.309	77.5	1.553
982	3.50	34.290	0.38					78.8	1200	3.05	34.411	0.26	27.433	65.7	1.712
1162	3.08	34.403	0.27					66.5							

RV THOMAS WASHINGTON

INDOPAC LEG 1

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	LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES					
	35 00.6N	160 00.7W	4/ 7/76	0440	GMT	5824M	33U	2KT	0	320 7 8					
Z	T	S	G2	P04	SIG3	N02	N03	DT	Z	T	S	G2	SIGT	DT	DD
1	15.63	34.322	5.94	0.09	6.1	0.00	0.0	265.4	0	15.63	34.322	5.94	25.330	265.4	0.000
11	15.53	34.348	5.94	0.11	5.7	0.00	0.0	261.3	10	15.54	34.347	5.94	25.368	261.7	0.026
31	15.38	34.358	5.92	0.10	5.6	0.00	0.0	257.4	20	15.45	34.357	5.93	25.396	259.0	0.052
50	15.37	34.359	5.91	0.09	5.5	0.00	0.0	257.1	30	15.39	34.359	5.92	25.412	257.5	0.078
77	14.71	34.251	5.81	0.19	5.6	0.00	0.1	251.3	50	15.37	34.359	5.91	25.416	257.1	0.130
101	15.80	34.156	5.83	0.21	6.6	0.25	0.8	240.0	75	14.78	34.262	5.82	25.470	252.0	0.194
117	12.97	34.237	5.48	0.44	9.1	0.01	5.8	218.0	100	13.84	34.158	5.83	25.588	240.7	0.256
126	12.74	34.279	5.34	0.59	9.5	0.01	7.4	210.6	125	12.76	34.276	5.35	25.899	211.2	0.314
136	12.56	34.297	5.32	0.60	9.8	0.00	8.1	205.9	150	12.52	34.298	5.30	26.002	201.4	0.366
152	12.29	34.297	5.30	0.61	11.4	0.00	8.8	200.9	200	11.86	34.318	5.28	26.106	191.6	0.466
176	12.05	34.313	5.31	0.72	12.6	0.00	9.4	195.3	250	11.15	34.271	5.27	26.201	182.6	0.563
201	11.85	34.317	5.28	0.71	13.6	0.00	10.2	191.5	300	10.52	34.208	5.25	26.299	173.2	0.655
299	10.33	34.208	5.25	0.98	17.0	0.00	13.8	173.4	400	8.97	34.144	4.76	26.473	156.7	0.827
398	9.01	34.146	4.77	1.33	28.5	0.00	16.4	157.1	500	7.10	34.026	4.04	26.660	139.0	0.982
496	7.17	34.028	4.10	1.78	43.7	0.00	25.0	139.7	600	5.49	33.995	2.58	26.843	121.7	1.120
595	5.55	33.992	2.63	2.36	69.0	0.00	33.3	122.4	700	4.57	34.049	1.78	26.991	107.6	1.241
692	4.63	34.041	1.84	2.76	89.6	0.00	38.9	108.7	800	4.03	34.137	1.06	27.119	95.4	1.350
790	4.07	34.127	1.12	3.00	107.6	0.00	42.2	96.5	1000	3.59	34.303	0.33	27.315	76.8	1.536
985	3.42	34.243	0.34	3.20	135.9	0.00	45.2	77.9	1200	3.01	34.426	0.26	27.449	64.2	1.693
1185	3.04	34.416	0.27		151.7	0.00	45.8	65.2							

37						INDOPAC LEG I						38					
LATITUDE	LONGITUDE	MO/DAY/YR	START TIME			LATITUDE	LONGITUDE	MO/DAY/YR	START TIME			LATITUDE	LONGITUDE	MO/DAY/YR	START TIME		
34 59.5N	158 04.1W	04/06/76	1308 GMT			35 00. N	159 00.4W	04/06/76	1524 GMT								
Z	T	S	SIGMA T	DT	DD	Z	T	S	SIGMA T	DT	DD	Z	T	S	SIGMA T	DT	DD
0	15.38	34.25	25.330	265.3	0.000	0	15.57	34.33	25.349	263.5	0.000	0	15.57	34.33	25.349	263.5	0.000
10	15.38	34.25	25.330	265.3	0.027	10	15.57	34.33	25.349	263.5	0.026	10	15.57	34.33	25.349	263.5	0.026
20	15.38	34.25	25.330	265.3	0.053	20	15.57	34.33	25.349	263.5	0.053	20	15.57	34.33	25.349	263.5	0.053
30	15.39	34.25	25.328	265.5	0.080	30	15.57	34.33	25.349	263.5	0.079	30	15.57	34.33	25.349	263.5	0.079
40	15.39	34.25	25.328	265.5	0.106	40	15.57	34.33	25.349	263.5	0.106	40	15.57	34.33	25.349	263.5	0.106
50	15.40	34.25	25.326	265.7	0.133	50	15.57	34.33	25.349	263.5	0.132	50	15.57	34.33	25.349	263.5	0.132
75	15.21	34.23	25.352	263.2	0.200	75	15.28	34.30	25.391	259.6	0.198	75	15.28	34.30	25.391	259.6	0.198
100	14.46	34.13	25.438	255.0	0.265	100	14.85	34.27	25.462	252.8	0.263	100	14.85	34.27	25.462	252.8	0.263
125	13.13	34.31	25.852	215.7	0.325	125	13.31	34.32	25.824	218.4	0.322	125	13.31	34.32	25.824	218.4	0.322
150	12.51	34.28	25.952	206.2	0.378	150	12.43	34.30	25.983	203.3	0.376	150	12.43	34.30	25.983	203.3	0.376
175	12.00	34.25	26.027	199.1	0.430	175	12.04	34.31	26.066	195.4	0.427	175	12.04	34.31	26.066	195.4	0.427
200	11.71	34.26	26.089	193.1	0.480	200	11.65	34.29	26.124	189.9	0.476	200	11.65	34.29	26.124	189.9	0.476
225	11.55	34.29	26.142	188.1	0.529	225	11.27	34.26	26.171	185.4	0.524	225	11.27	34.26	26.171	185.4	0.524
250	11.32	34.29	26.185	184.1	0.577	250	11.03	34.26	26.214	181.3	0.571	250	11.03	34.26	26.214	181.3	0.571
275	10.91	34.27	26.244	178.5	0.624	275	10.84	34.25	26.241	178.8	0.618	275	10.84	34.25	26.241	178.8	0.618
300	10.51	34.23	26.284	174.7	0.670	300	10.49	34.24	26.295	173.6	0.664	300	10.49	34.24	26.295	173.6	0.664
350	9.77	34.19	26.379	165.6	0.758	350	9.76	34.19	26.381	165.5	0.752	350	9.76	34.19	26.381	165.5	0.752
400	9.04	34.14	26.460	158.0	0.843	400	8.93	34.14	26.480	156.0	0.836	400	8.93	34.14	26.480	156.0	0.836
450	8.05	34.07	26.558	148.7	0.923	450	8.11	34.08	26.557	148.8	0.916	450	8.11	34.08	26.557	148.8	0.916
500	6.87	34.00	26.671	137.9	0.999	500	7.41	34.04	26.628	142.0	0.992	500	7.41	34.04	26.628	142.0	0.992
550	5.92	33.98	26.780	127.6	1.069	550	6.47	33.99	26.717	133.6	1.065	550	6.47	33.99	26.717	133.6	1.065
600	5.25	33.99	26.869	119.2	1.134	600	5.79	33.99	26.804	125.4	1.134	600	5.79	33.99	26.804	125.4	1.134
650	4.72	34.02	26.953	111.2	1.195	650	5.14	34.01	26.897	116.5	1.198	650	5.14	34.01	26.897	116.5	1.198
700	4.35	34.06	27.025	104.4	1.252	700	4.73	34.04	26.966	109.8	1.258	700	4.73	34.04	26.966	109.8	1.258
750	4.11	34.11	27.090	98.2	1.306	750	4.29	34.09	27.055	101.5	1.314	750	4.29	34.09	27.055	101.5	1.314
800	3.96	34.15	27.137	93.7	1.357	800	4.09	34.13	27.108	96.5	1.367	800	4.09	34.13	27.108	96.5	1.367
850	3.79	34.19	27.186	89.1	1.406	850	3.90	34.19	27.175	90.1	1.418	850	3.90	34.19	27.175	90.1	1.418
900	3.68	34.23	27.229	85.0	1.453	900	3.75	34.23	27.222	85.7	1.465	900	3.75	34.23	27.222	85.7	1.465
950	3.53	34.27	27.275	80.6	1.498	950	3.59	34.26	27.262	81.9	1.511	950	3.59	34.26	27.262	81.9	1.511
1000	3.41	34.30	27.311	77.3	1.542	1000	3.46	34.29	27.296	78.5	1.555	1000	3.46	34.29	27.296	78.5	1.555
1100	3.16	34.36	27.382	70.5	1.623	1100	3.24	34.36	27.375	71.2	1.637	1100	3.24	34.36	27.375	71.2	1.637
1200	2.97	34.40	27.432	65.8	1.699	1200	3.05	34.40	27.424	66.5	1.714	1200	3.05	34.40	27.424	66.5	1.714

39						INDOPAC LEG I					
LATITUDE	LONGITUDE	MO/DAY/YR	START TIME			LATITUDE	LONGITUDE	MO/DAY/YR	START TIME		
35 00.6N	160 00.7W	04/07/76	0345 GMT								
Z	T	S	SIGMA T	DT	DD	Z	T	S	SIGMA T	DT	DD
0	15.67	34.30	25.304	267.8	0.000	0	15.67	34.30	25.304	267.8	0.000
10	15.57	34.34	25.357	262.8	0.027	10	15.57	34.34	25.357	262.8	0.027
20	15.46	34.36	25.397	259.0	0.053	20	15.46	34.36	25.397	259.0	0.053
30	15.40	34.36	25.410	257.7	0.079	30	15.40	34.36	25.410	257.7	0.079
40	15.39	34.36	25.412	257.5	0.104	40	15.39	34.36	25.412	257.5	0.104
50	15.37	34.36	25.417	257.1	0.130	50	15.37	34.36	25.417	257.1	0.130
75	14.94	34.30	25.465	252.4	0.194	75	14.94	34.30	25.465	252.4	0.194
100	13.81	34.14	25.582	241.3	0.257	100	13.81	34.14	25.582	241.3	0.257
125	12.83	34.26	25.874	213.6	0.314	125	12.83	34.26	25.874	213.6	0.314
150	12.37	34.29	25.987	202.9	0.367	150	12.37	34.29	25.987	202.9	0.367
175	12.08	34.31	26.058	196.1	0.418	175	12.08	34.31	26.058	196.1	0.418
200	11.91	34.32	26.098	192.3	0.468	200	11.91	34.32	26.098	192.3	0.468
225	11.23	34.23	26.155	186.9	0.517	225	11.23	34.23	26.155	186.9	0.517
250	10.99	34.24	26.206	182.1	0.564	250	10.99	34.24	26.206	182.1	0.564
275	10.66	34.22	26.249	177.9	0.611	275	10.66	34.22	26.249	177.9	0.611
300	10.30	34.20	26.297	173.4	0.656	300	10.30	34.20	26.297	173.4	0.656
350	9.82	34.19	26.371	166.4	0.744	350	9.82	34.19	26.371	166.4	0.744
400	9.06	34.15	26.464	157.5	0.829	400	9.06	34.15	26.464	157.5	0.829
450	8.00	34.08	26.573	147.2	0.909	450	8.00	34.08	26.573	147.2	0.909
500	7.30	34.04	26.643	140.6	0.985	500	7.30	34.04	26.643	140.6	0.985
550	6.27	33.99	26.743	131.1	1.057	550	6.27	33.99	26.743	131.1	1.057
600	5.51	33.99	26.838	122.1	1.124	600	5.51	33.99	26.838	122.1	1.124
650	4.93	34.02	26.929	113.4	1.186	650	4.93	34.02	26.929	113.4	1.186
700	4.52	34.05	26.999	106.8	1.245	700	4.52	34.05	26.999	106.8	1.245
750	4.19	34.10	27.074	99.7	1.300	750	4.19	34.10	27.074	99.7	1.300
800	4.01	34.14	27.124	95.0	1.352	800	4.01	34.14	27.124	95.0	1.352
850	3.83	34.18	27.174	90.2	1.401	850	3.83	34.18	27.174	90.2	1.401
900	3.67	34.23	27.230	84.9	1.449	900	3.67	34.23	27.230	84.9	1.449
950	3.52	34.26	27.269	81.3	1.494	950	3.52	34.26	27.269	81.3	1.494
1000	3.35	34.30	27.317	76.7	1.537	1000	3.35	34.30	27.317	76.7	1.537
1100	3.18	34.36	27.380	70.7	1.618	1100	3.18	34.36	27.380	70.7	1.618
1200	3.00	34.42	27.445	64.6	1.694	1200	3.00	34.42	27.445	64.6	1.694

RV THOMAS WASHINGTON										INDOPAC LEG I							
LATITUDE		LONGITUDE		MO/DAY/YR		MESSENGER		TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES				
35 00.2N		161 02.3W		4/ 7/76		1116		GMT	5892M	250	5KT	1	280 4 9				
Z	T	S	O2	P04	S103	N02	N03	DT	Z	T	S	O2	SIGT	DT	DD		
2	15.10	34.182	6.03					264.4	0	15.10	34.182	6.03	25.340	264.4	0.000		
11	14.76	34.153	6.06					259.5	10	14.79	34.156	6.06	25.387	259.9	0.026		
32	14.69	34.151	6.05					258.2	20	14.73	34.153	6.06	25.397	258.9	0.052		
51	14.66	33.877 U	6.04						30	14.70	34.152	6.05	25.404	258.3	0.078		
76	14.05	34.148	5.89					245.5	50	14.67	34.150	6.04	25.408	257.9	0.130		
101	13.74	34.138	5.81					240.1	75	14.08	34.149	5.90	25.533	246.0	0.193		
117	12.35	34.193	5.39					209.6	100	13.75	34.139	5.81	25.593	240.3	0.255		
126	12.07	34.201	5.37					204.0	125	12.09	34.202	5.37	25.972	204.3	0.311		
136	11.89	34.209	5.35					200.1	150	11.64	34.204	5.34	26.059	195.9	0.362		
151	11.62	34.204	5.52U					195.7	200	11.19	34.245	5.28	26.173	185.2	0.459		
176	11.43	34.232	5.32					190.3	250	10.60	34.228	5.22	26.266	176.4	0.552		
202	11.17	34.245	5.28					189.8	300	9.91	34.182	5.12	26.350	168.4	0.641		
300	9.91	34.182	5.12					168.4	400	8.36	34.099	4.62	26.533	151.0	0.808		
399	8.38	34.099	4.63					151.2	500	6.41	33.995	3.62	26.728	132.6	0.957		
497	6.46	33.995	3.66					133.1	600	5.09	34.009	2.44	26.901	116.1	1.088		
597	5.12	34.006	2.47					116.6	700	4.34	34.083	1.50	27.044	102.6	1.204		
695	4.37	34.078	1.54					103.2	800	3.89	34.171	0.91	27.160	91.5	1.307		
795	3.91	34.166	0.93					92.0	1000	3.35	34.312	0.37	27.325	75.9	1.489		
992	3.37	34.306	0.37					76.4	1200	3.05	34.413	0.31	27.435	65.5	1.646		
1192	3.06	34.409	0.31					65.9									

RV THOMAS WASHINGTON										INDOPAC LEG I									
LATITUDE		LONGITUDE		MO/DAY/YR		MESSENGER		TIME		BOTTOM		WIND		SPEED		WEATHER		DOMINANT WAVES	
35 01.4N		161 59.9W		4/ 7/76		1708 GMT				5869M		230		8KT		1		360 7 12	
Z	T	S	O2	P04	S103	N02	N03	DT	Z	T	S	O2	SIGT	DT	DD				
0	14.75	34.201	6.02	0.12	6.7	0.00	0.0	255.8	0	14.75	34.201	6.02	25.430	255.8	0.000				
10	14.74	34.197	6.03	0.11	6.5	0.00	0.0	255.9	10	14.74	34.197	6.03	25.429	255.9	0.026				
31	14.65	34.194	6.04	0.13	6.3	0.01	0.0	254.2	20	14.70	34.197	6.03	25.438	255.1	0.051				
50	14.25	34.167	5.95	0.25	6.4	0.01	0.0	248.1	30	14.65	34.195	6.04	25.446	254.3	0.077				
75	13.21	34.105	5.91	0.29	7.4	0.23	1.1	232.2	50	14.25	34.167	5.95	25.511	248.1	0.127				
100	12.98	34.146	6.06	0.27	7.5	0.13	0.6	224.9	75	13.21	34.105	5.91	25.678	232.2	0.186				
125	12.65	34.172	5.81	0.41	8.3	0.22	4.2	216.7	100	12.98	34.146	6.06	25.756	224.9	0.245				
150	12.14	34.288	5.34	0.69	11.7	0.03	9.0	198.8	125	12.65	34.172	5.81	25.841	216.7	0.301				
174	11.86	34.308	5.33	0.72	12.7	0.03	10.2	192.3	150	12.14	34.288	5.34	26.030	198.8	0.354				
200	11.20	34.244	5.42	0.81	13.8	0.03	10.9	185.4	200	11.20	34.244	5.42	26.171	185.4	0.452				
249	10.40	34.194	5.24	0.95	17.7	0.03	13.0	175.5	250	10.39	34.195	5.24	26.276	175.4	0.545				
298	10.02	34.190	5.14	1.05	19.8	0.01	14.9	169.6	300	10.00	34.190	5.14	26.340	169.3	0.634				
397	8.53	34.099	4.76	1.39	29.2	0.03	19.5	153.4	400	8.48	34.097	4.74	26.513	152.9	0.802				
494	6.90	34.015	3.94	1.84	44.3	0.03	26.2	137.2	500	6.80	34.013	3.86	26.691	136.1	0.954				
593	5.36	34.004	2.57	2.47	69.5	0.03	34.3	119.4	600	5.28	34.009	2.49	26.879	118.2	1.088				
690	4.44	34.072	1.63	2.84	90.3	0.01	39.6	104.4	700	4.38	34.082	1.54	27.039	103.1	1.205				
788	3.94	34.160	0.91	3.07	107.5	0.00	42.8	92.8	800	3.89	34.172	0.85	27.160	91.5	1.309				
963	3.38	34.314	0.33	3.21	131.1	0.01	44.9	75.9	1000	3.34	34.325	0.32	27.337	74.8	1.490				
1180	3.02	34.418	0.26	3.25	145.7	0.00	45.4	64.9	1200	2.98	34.426	0.27	27.451	64.0	1.644				
1481	2.57	34.522	0.60	3.19	157.3	0.00	44.7	53.3	1500	2.55	34.528	0.62	27.571	52.6	1.843				

RV THOMAS WASHINGTON										INDOPAC LEG I							
LATITUDE		LONGITUDE		MO/DAY/YR		MESSENGER		TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES				
34 58.8N		162 59.8W		4/ 7/76		2319 GMT			5820M	250	7KT	1	280 5 9				
Z	T	S	O2	P04	S103	N02	N03	DT	Z	T	S	O2	SIGT	DT	DD		
1	14.49	34.209	6.10					249.9	0	14.49	34.209	6.10	25.492	249.9	0.000		
11	14.37	34.204	6.11					247.8	10	14.38	34.205	6.11	25.512	248.0	0.025		
30	14.14	34.196	6.12					243.8	20	14.27	34.202	6.11	25.534	245.9	0.050		
49	13.84	34.170	6.06					239.7	30	14.14	34.196	6.12	25.557	243.8	0.074		
74	13.27	34.129	6.02					231.6	50	13.82	34.169	6.06	25.603	239.4	0.123		
98	13.04	34.101	6.01					229.3	75	13.26	34.128	6.02	25.686	231.5	0.182		
113	13.01	34.112	6.00					227.9	100	13.04	34.102	6.01	25.710	229.2	0.240		
124	12.96	34.141	5.93					224.8	125	12.94	34.146	5.90	25.764	224.1	0.298		
132	12.86	34.155	5.82					221.9	150	12.56	34.219	5.56	25.893	211.8	0.353		
147	12.63	34.211	5.59					213.5	200	11.98	34.286	5.36	26.057	196.2	0.457		
170	12.17	34.253	5.44					201.9	250	11.41	34.284	5.37	26.163	186.1	0.555		
196	12.02	34.283	5.36					197.0	300	10.66	34.243	5.37	26.267	176.3	0.649		
292	10.78	34.250	5.39					177.8	400	9.02	34.131	4.90	26.455	158.4	0.824		
388	9.22	34.142	4.97					160.6	500	7.38	34.044	4.19	26.634	141.5	0.981		
485	7.63	34.057	4.31					143.8	600	5.89	33.992	3.23	26.792	126.5	1.123		
582	6.13	33.991	3.45					129.3	700	4.82	34.035	2.04	26.953	112.3	1.249		
678	5.02	34.019	2.26					114.5	800	4.13	34.117	1.24	27.092	98.0	1.361		
775	4.26	34.093	1.41					101.0	1000	3.47	34.287	0.45	27.295	78.8	1.553		
968	3.56	34.263	0.48					81.4									
1160	3.09	34.379	0.30					68.4									

40						INDOPAC LEG I						41					
LATITUDE		LONGITUDE		MO/DAY/YR		START TIME		LATITUDE		LONGITUDE		MO/DAY/YR		START TIME			
35 00.2N		161 02.3W		04/07/76		1025 GMT		35 01.4N		161 59.9W		04/07/76		1625 GMT			
Z	T	S	SIGMA T	DT	DD	Z	T	S	SIGMA T	DT	DD	Z	T	S	SIGMA T	DT	DD
0	15.05	34.17	25.341	264.2	0.000	0	14.72	34.21	25.444	254.5	0.000	0	14.72	34.21	25.444	254.5	0.000
10	14.88	34.16	25.371	261.4	0.026	10	14.70	34.20	25.440	254.8	0.025	10	14.70	34.20	25.440	254.8	0.025
20	14.67	34.15	25.408	257.9	0.052	20	14.65	34.20	25.451	253.8	0.051	20	14.65	34.20	25.451	253.8	0.051
30	14.64	34.15	25.415	257.3	0.078	30	14.63	34.20	25.455	253.4	0.076	30	14.63	34.20	25.455	253.4	0.076
40	14.63	34.15	25.417	257.1	0.104	40	14.48	34.18	25.472	251.8	0.102	40	14.48	34.18	25.472	251.8	0.102
50	14.61	34.15	25.421	256.6	0.130	50	14.02	34.14	25.539	245.5	0.127	50	14.02	34.14	25.539	245.5	0.127
75	14.02	34.13	25.531	246.2	0.193	75	13.33	34.10	25.650	234.9	0.187	75	13.33	34.10	25.650	234.9	0.187
100	13.86	34.13	25.564	243.0	0.255	100	13.00	34.15	25.755	224.9	0.245	100	13.00	34.15	25.755	224.9	0.245
125	12.36	34.19	25.911	210.0	0.312	125	12.84	34.16	25.794	221.2	0.302	125	12.84	34.16	25.794	221.2	0.302
150	11.66	34.20	26.052	196.7	0.364	150	12.22	34.24	25.977	203.8	0.356	150	12.22	34.24	25.977	203.8	0.356
175	11.38	34.22	26.120	190.5	0.413	175	11.74	34.30	26.115	190.7	0.406	175	11.74	34.30	26.115	190.7	0.406
200	11.14	34.24	26.179	184.6	0.461	200	11.03	34.23	26.191	183.5	0.454	200	11.03	34.23	26.191	183.5	0.454
225	10.87	34.25	26.235	179.3	0.508	225	10.81	34.24	26.238	179.0	0.500	225	10.81	34.24	26.238	179.0	0.500
250	10.51	34.23	26.284	174.7	0.553	250	10.38	34.19	26.275	175.5	0.546	250	10.38	34.19	26.275	175.5	0.546
275	10.17	34.21	26.327	170.6	0.598	275	10.09	34.18	26.317	171.5	0.591	275	10.09	34.18	26.317	171.5	0.591
300	9.81	34.17	26.357	167.7	0.642	300	9.89	34.19	26.359	167.5	0.635	300	9.89	34.19	26.359	167.5	0.635
350	9.11	34.14	26.449	159.0	0.727	350	9.22	34.15	26.439	160.0	0.720	350	9.22	34.15	26.439	160.0	0.720
400	8.33	34.10	26.539	150.4	0.808	400	8.31	34.09	26.535	150.9	0.801	400	8.31	34.09	26.535	150.9	0.801
450	7.30	34.03	26.635	141.3	0.884	450	7.48	34.05	26.626	142.3	0.878	450	7.48	34.05	26.626	142.3	0.878
500	6.60	34.00	26.708	134.5	0.956	500	6.81	34.03	26.703	134.9	0.951	500	6.81	34.03	26.703	134.9	0.951
550	5.76	33.99	26.807	125.0	1.025	550	5.86	33.99	26.795	126.2	1.020	550	5.86	33.99	26.795	126.2	1.020
600	5.16	34.01	26.895	116.7	1.089	600	5.20	34.00	26.883	117.9	1.084	600	5.20	34.00	26.883	117.9	1.084
650	4.71	34.04	26.970	109.6	1.149	650	4.77	34.03	26.955	111.0	1.145	650	4.77	34.03	26.955	111.0	1.145
700	4.36	34.08	27.040	103.0	1.205	700	4.38	34.09	27.046	102.4	1.201	700	4.38	34.09	27.046	102.4	1.201
750	4.03	34.13	27.114	95.9	1.258	750	4.06	34.13	27.111	96.2	1.254	750	4.06	34.13	27.111	96.2	1.254
800	3.86	34.17	27.163	91.3	1.308	800	3.87	34.16	27.170	90.6	1.304	800	3.87	34.16	27.170	90.6	1.304
850	3.68	34.21	27.213	86.5	1.356	850	3.72	34.22	27.217	86.2	1.352	850	3.72	34.22	27.217	86.2	1.352
900	3.55	34.25	27.258	82.4	1.401	900	3.59	34.26	27.262	81.9	1.397	900	3.59	34.26	27.262	81.9	1.397
950	3.44	34.28	27.292	79.0	1.445	950	3.47	34.29	27.297	78.6	1.441	950	3.47	34.29	27.297	78.6	1.441
1000	3.35	34.31	27.325	76.0	1.488	1000	3.37	34.32	27.331	75.4	1.483	1000	3.37	34.32	27.331	75.4	1.483
1100	3.17	34.36	27.361	70.6	1.569	1100	3.17	34.37	27.389	69.8	1.563	1100	3.17	34.37	27.389	69.8	1.563
1188	3.08	34.41	27.429	66.0	1.636	1200	2.99	34.43	27.454	63.7	1.638	1200	2.99	34.43	27.454	63.7	1.638
						1300	2.82	34.47	27.501	59.3	1.707	1300	2.82	34.47	27.501	59.3	1.707
						1400	2.67	34.51	27.546	55.0	1.775	1400	2.67	34.51	27.546	55.0	1.775
						1500	2.54	34.53	27.573	52.4	1.835	1500	2.54	34.53	27.573	52.4	1.835

42						INDOPAC LEG I					
LATITUDE		LONGITUDE		MO/DAY/YR		START TIME					
34 58.8N		162 59.8W		04/07/76		2238 GMT					
Z	T	S	SIGMA T	DT	DD	Z	T	S	SIGMA T	DT	DD
0	14.51	34.21	25.489	250.2	0.000	0	14.51	34.21	25.489	250.2	0.000
10	14.32	34.20	25.522	247.1	0.025	10	14.32	34.20	25.522	247.1	0.025
20	14.18	34.20	25.551	244.3	0.049	20	14.18	34.20	25.551	244.3	0.049
30	14.14	34.20	25.560	243.5	0.074	30	14.14	34.20	25.560	243.5	0.074
40	14.08	34.19	25.565	243.0	0.098	40	14.08	34.19	25.565	243.0	0.098
50	13.92	34.18	25.590	240.6	0.123	50	13.92	34.18	25.590	240.6	0.123
75	13.34	34.14	25.679	232.2	0.182	75	13.34	34.14	25.679	232.2	0.182
100	13.06	34.11	25.712	229.0	0.240	100	13.06	34.11	25.712	229.0	0.240
125	12.76	34.19	25.833	217.5	0.297	125	12.76	34.19	25.833	217.5	0.297
150	12.38	34.22	25.931	208.2	0.351	150	12.38	34.22	25.931	208.2	0.351
175	12.11	34.28	26.029	198.9	0.403	175	12.11	34.28	26.029	198.9	0.403
200	11.91	34.30	26.083	193.8	0.453	200	11.91	34.30	26.083	193.8	0.453
225	11.43	34.29	26.165	186.0	0.502	225	11.43	34.29	26.165	186.0	0.502
250	11.06	34.27	26.217	181.0	0.549	250	11.06	34.27	26.217	181.0	0.549
275	10.79	34.25	26.250	177.9	0.595	275	10.79	34.25	26.250	177.9	0.595
300	10.46	34.23	26.292	173.9	0.641	300	10.46	34.23	26.292	173.9	0.641
350	9.69	34.16	26.369	166.6	0.730	350	9.69	34.16	26.369	166.6	0.730
400	8.93	34.14	26.477	156.3	0.814	400	8.93	34.14	26.477	156.3	0.814
450	8.13	34.09	26.562	148.3	0.894	450	8.13	34.09	26.562	148.3	0.894
500	7.16	34.03	26.655	139.5	0.970	500	7.16	34.03	26.655	139.5	0.970
550	6.44	34.00	26.729	132.5	1.042	550	6.44	34.00	26.729	132.5	1.042
600	5.71	33.99	26.814	124.4	1.110	600	5.71	33.99	26.814	124.4	1.110
650	5.16	34.01	26.895	116.7	1.173	650	5.16	34.01	26.895	116.7	1.173
700	4.79	34.03	26.953	111.2	1.234	700	4.79	34.03	26.953	111.2	1.234
750	4.39	34.07	27.029	104.0	1.291	750	4.39	34.07	27.029	104.0	1.291
800	4.16	34.11	27.085	98.7	1.346	800	4.16	34.11	27.085	98.7	1.346
850	3.97	34.16	27.144	93.1	1.397	850	3.97	34.16	27.144	93.1	1.397
900	3.81	34.20	27.192	88.5	1.446	900	3.81	34.20	27.192	88.5	1.446
950	3.64	34.24	27.241	83.9	1.493	950	3.64	34.24	27.241	83.9	1.493
1000	3.49	34.26	27.287	79.5	1.538	1000	3.49	34.26	27.287	79.5	1.538
1100	3.19	34.34	27.364	72.3	1.621	1100	3.19	34.34	27.364	72.3	1.621
1172	3.07	34.38	27.407	68.2	1.677	1172	3.07	34.38	27.407	68.2	1.677

RV THOMAS WASHINGTON

INDOPAC LEG 1

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LATITUDE		LONGITUDE		MO/DAY/YR		MESSENGER		TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES		
35 00. N		163 59.3W		4/ 8/76		0528 0936		GMT	5716M	020	15KT	1	49		
Z	T	S	02	P04	S103	N02	N03	DT	Z	T	S	02	SIGT	DT	DD
0	15.47	34.336	5.96	0.06	7.5	0.00	0.0	260.9	0	15.47	34.336	5.96	25.376	260.9	0.000
10	15.48	34.342	5.97	0.09	7.1	0.00	0.0	260.7	10	15.48	34.342	5.97	25.378	260.7	0.026
20	15.40	34.371	5.97	0.11	6.2	0.00	0.0	256.9	20	15.40	34.371	5.97	25.418	256.9	0.052
31	15.19	34.337	6.02	0.09	6.9	0.00	0.0	255.0	30	15.22	34.343	6.01	25.436	255.2	0.078
50	13.76	34.202	6.05	0.13	7.2	0.03	0.1	235.6	50	13.76	34.202	6.05	25.641	235.6	0.127
76	13.39	34.178	5.96	0.25	7.0	0.07	0.2	230.3	75	13.40	34.182	5.97	25.697	230.4	0.186
100	12.96	34.208	5.78	0.30	8.6	0.30	3.2	219.9	100	12.96	34.208	5.78	25.808	219.9	0.243
126	12.68	34.231	5.60	0.40	8.8	0.03	5.4	213.0	125	12.68	34.230	5.61	25.878	213.2	0.297
151	12.89	34.399	5.21	0.61	10.8	0.00	8.7	204.6	150	12.88	34.393	5.22	25.965	204.9	0.351
201	11.99	34.354	5.27	0.71	13.4	0.00	10.3	191.2	200	12.02	34.359	5.27	26.107	191.5	0.452
250	10.93	34.233	5.39	0.85	15.4	0.01	11.4	181.6	250	10.93	34.233	5.39	26.211	181.6	0.548
300	10.31	34.195	5.53	0.89	17.2	0.00	12.6	174.0	300	10.31	34.195	5.53	26.291	174.0	0.640
400	9.04	34.150	4.78	1.29	27.5	0.00	18.4	157.2	400	9.04	34.150	4.78	26.468	157.2	0.812
497	7.28	34.046	4.13	1.76	42.7	0.00	24.6	139.9	500	7.22	34.044	4.09	26.657	139.3	0.968
595	5.55	34.002	2.88	2.42	68.5	0.00	33.0	121.7	600	5.49	34.004	2.83	26.850	120.9	1.106
693	4.67	34.046	1.99	2.74	88.6	0.00	38.2	108.7	700	4.62	34.053	1.93	26.989	107.8	1.227
792	4.11	34.133	1.22	2.99	106.2	0.00	41.8	96.5	800	4.07	34.141	1.17	27.117	95.6	1.336
986	3.43	34.292	0.45	3.20	135.0	0.00	44.6	78.0	1000	3.38	34.306	0.42	27.317	76.6	1.523
1127A	3.08	34.397	0.26	3.22	149.9	0.00	46.0	67.0	1200	3.03	34.415	0.27	27.438	65.2	1.680
1185	3.04	34.410	0.26	3.25	150.8	0.00	45.6	65.7	1500	2.54	34.529	0.69	27.572	52.5	1.881
1422A	2.70	34.501	0.56	3.20	161.4	0.00	45.5	55.9	1750	2.20	34.581	1.09	27.642	45.9	2.025
1489	2.56	34.526	0.67	3.23	165.0	0.00	44.9	52.9	2000	1.98	34.604	1.50	27.677	42.2	2.157
1915A	2.05	34.597	1.35	3.03	177.4	0.00	43.5	43.5	2250	1.60	34.624	1.92	27.707	39.0	2.280
2505A	1.67	34.649	2.31	2.82	178.6	0.00	40.7	36.8	2500	1.67	34.649	2.30	27.737	36.8	2.397
3097A	1.53	34.670	2.91	2.70	172.0	0.00	39.0	34.2	2750	1.59	34.657	2.59	27.749	35.4	2.511
3687A	1.48	34.680	3.27	2.53	165.2	0.01	38.0	33.1	3000	1.54	34.666	2.83	27.761	34.5	2.623
4278A	1.496	34.683	3.50	2.52	160.4	0.01	37.4	33.0	3250	1.51	34.673	3.02	27.768	33.8	2.734
4869A	1.556	34.687	3.66	2.50	154.4	0.01	36.9	33.0	3500	1.49	34.677	3.18	27.773	33.3	2.845
5461A	1.594	34.688	3.80	2.50	151.2	0.01	36.6	33.3	3750	1.48	34.681	3.30	27.777	33.1	2.956
5560A	1.613	34.690	3.74	2.50	150.7	0.00	36.6	33.3	4000	1.49	34.682	3.40	27.777	33.1	3.068
									4250	1.50	34.684	3.49	27.778	33.0	3.182
									4500	1.51	34.688	3.56	27.778	33.0	3.297
									4750	1.53	34.687	3.63	27.778	33.0	3.415
									5000	1.55	34.688	3.69	27.777	33.1	3.535
									5250	1.57	34.688	3.75	27.776	33.2	3.658
									5500	1.60	34.689	3.78	27.775	33.3	3.783

RV THOMAS WASHINGTON

INDOPAC LEG 1

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LATITUDE		LONGITUDE		MO/DAY/YR		MESSENGER		TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES		
34 59.6N		165 00.3W		4/ 8/76		1730 GMT			5751M	120	2KT	2	5 10		
Z	T	S	02	P04	S103	N02	N03	DT	Z	T	S	02	SIGT	DT	DD
0	14.58	34.265	6.15					247.6	0	14.58	34.265	6.15	25.516	247.6	0.000
9	14.57	34.263	6.11					247.6	10	14.54	34.262	6.11	25.521	247.1	0.025
30	13.86	34.239	6.19					235.1	20	14.24	34.250	6.15	25.576	241.9	0.049
49	13.45	34.251	6.06					226.2	30	13.86	34.239	6.19	25.648	235.1	0.073
75	12.83	34.212	5.95					217.2	50	13.42	34.251	6.06	25.746	225.8	0.119
99	12.45	34.222	5.72					209.4	75	12.83	34.212	5.95	25.836	217.2	0.175
120	12.21	34.246	5.59					203.2	100	12.44	34.224	5.71	25.922	209.1	0.229
140	11.98	34.277	5.48					196.7	125	12.16	34.256	5.56	26.001	201.6	0.281
161	11.66	34.283	5.36					190.9	150	11.84	34.283	5.41	26.082	193.8	0.331
180	11.43	34.278	5.47					186.9	200	11.17	34.273	5.43	26.198	182.8	0.428
201	11.16	34.272	5.43					182.6	250	10.64	34.240	5.41	26.268	176.1	0.520
250	10.64	34.240	5.41					176.1	300	9.97	34.194	5.29	26.349	168.5	0.609
300	9.97	34.194	5.29					168.5	400	8.55	34.113	4.71	26.515	152.8	0.776
399	8.57	34.113	4.72					153.0	500	6.55	34.003	3.61	26.715	133.7	0.927
497	6.60	34.003	3.85					134.2	600	5.22	34.004	2.55	26.882	118.0	1.060
596	5.27	34.000	2.60					118.7	700	4.34	34.083	1.57	27.043	102.6	1.177
693	4.38	34.076	1.62					103.5	800	3.92	34.164	0.96	27.152	92.3	1.281
792	3.95	34.156	1.00					93.2	1000	3.28	34.321	0.36	27.339	74.6	1.462
987	3.31	34.312	0.36					75.4	1200	2.91	34.411	0.36	27.446	64.5	1.616
1184	2.94	34.404	0.36					65.3							

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INDOPAC LEG I

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LATITUDE	LONGITUDE	MO/DAY/YR	START TIME				LATITUDE	LONGITUDE	MO/DAY/YR	START TIME			
35 00. N	163 59.3W	04/08/76	1000 GMT				34 59.6N	165 00.3W	04/08/76	1645 GMT			
Z	T	S	SIGMA T	DT	DD		Z	T	S	SIGMA T	DT	DD	
0	15.61	34.27	25.294	268.7	0.000		0	14.57	34.25	25.507	248.5	0.000	
10	15.61	34.27	25.294	268.7	0.027		10	14.58	34.25	25.505	248.7	0.025	
20	15.59	34.28	25.306	267.6	0.054		20	14.51	34.24	25.512	248.0	0.050	
30	15.34	34.26	25.347	263.7	0.080		30	14.18	34.22	25.567	242.8	0.074	
40	14.25	34.14	25.490	250.1	0.106		40	13.73	34.23	25.668	233.2	0.098	
50	13.64	34.06	25.556	243.9	0.131		50	13.52	34.24	25.719	228.3	0.121	
75	13.33	34.05	25.611	238.6	0.192		75	12.98	34.21	25.805	220.2	0.178	
100	12.96	34.06	25.693	230.8	0.251		100	12.42	34.21	25.915	209.7	0.232	
125	12.52	34.10	25.811	219.8	0.304		125	12.08	34.25	25.996	202.0	0.284	
150	12.70	34.25	25.891	211.9	0.363		150	11.78	34.26	26.076	194.4	0.335	
175	12.46	34.26	25.946	206.7	0.416		175	11.50	34.27	26.136	188.7	0.384	
200	12.00	34.24	26.019	199.8	0.468		200	11.19	34.26	26.185	184.0	0.431	
225	11.31	34.12	26.055	196.4	0.519		225	10.83	34.24	26.235	179.3	0.478	
250	11.00	34.13	26.119	190.4	0.569		250	10.63	34.23	26.262	176.7	0.524	
275	10.51	34.07	26.159	186.5	0.617		275	10.17	34.20	26.319	171.3	0.569	
300	10.26	34.07	26.203	182.4	0.665		300	9.96	34.18	26.339	169.4	0.613	
350	9.68	34.07	26.301	173.1	0.757		350	9.24	34.14	26.428	161.0	0.699	
400	8.94	34.04	26.398	163.9	0.845		400	8.46	34.09	26.512	153.1	0.781	
450	7.98	34.01	26.521	152.1	0.928		450	7.53	34.04	26.611	143.7	0.859	
500	7.10	33.96	26.608	143.9	1.006		500	6.57	34.00	26.712	134.1	0.932	
550	6.24	33.95	26.715	133.7	1.079		550	5.86	33.99	26.795	126.2	1.000	
600	5.57	33.95	26.799	125.8	1.147		600	5.26	34.00	26.876	118.5	1.065	
650	5.08	33.97	26.873	118.8	1.212		650	4.73	34.03	26.960	110.5	1.125	
700	4.57	34.01	26.962	110.4	1.273		700	4.35	34.08	27.041	102.9	1.182	
750	4.30	34.06	27.030	103.9	1.330		750	4.10	34.12	27.099	97.3	1.235	
800	4.03	34.11	27.098	97.4	1.383		800	3.89	34.17	27.160	91.5	1.286	
850	3.80	34.16	27.161	91.4	1.434		850	3.69	34.21	27.212	86.6	1.334	
900	3.63	34.21	27.218	86.1	1.482		900	3.54	34.26	27.267	81.5	1.379	
950	3.46	34.25	27.266	81.5	1.528		950	3.37	34.30	27.315	76.9	1.422	
1000	3.34	34.29	27.310	77.4	1.571		1000	3.25	34.32	27.342	74.3	1.464	
1100	3.13	34.36	27.385	70.2	1.652		1100	3.07	34.37	27.399	69.0	1.543	
1200	2.96	34.41	27.440	65.0	1.727		1200	2.90	34.41	27.446	64.5	1.617	
1300	2.82	34.46	27.493	60.0	1.798								
1400	2.66	34.49	27.531	56.4	1.864								
1500	2.56	34.52	27.563	53.3	1.927								
1600	2.410	34.543	27.594	50.4	1.988								
1700	2.240	34.567	27.628	47.2	2.045								
1800	2.101	34.581	27.650	45.1	2.100								
1900	2.011	34.596	27.669	43.3	2.152								
2000	1.924	34.607	27.685	41.8	2.203								
2100	1.861	34.616	27.697	40.7	2.253								
2200	1.801	34.625	27.709	39.5	2.301								
2300	1.744	34.632	27.719	38.6	2.349								
2400	1.697	34.640	27.729	37.7	2.396								
2500	1.660	34.646	27.736	36.9	2.442								
2600	1.626	34.651	27.743	36.3	2.488								
2700	1.601	34.656	27.749	35.8	2.533								
2800	1.575	34.660	27.754	35.3	2.578								
2900	1.556	34.662	27.757	35.0	2.623								
3000	1.538	34.665	27.760	34.7	2.667								
3100	1.527	34.668	27.764	34.4	2.711								
3200	1.515	34.671	27.767	34.0	2.756								
3300	1.504	34.673	27.769	33.8	2.800								
3400	1.498	34.675	27.771	33.6	2.844								
3500	1.491	34.677	27.773	33.4	2.888								
3600	1.485	34.679	27.775	33.2	2.933								
3700	1.482	34.680	27.777	33.1	2.977								
3800	1.481	34.681	27.777	33.0	3.022								
3900	1.480	34.682	27.778	33.0	3.066								
4000	1.481	34.683	27.779	32.9	3.111								
4100	1.483	34.684	27.780	32.8	3.157								
4200	1.489	34.685	27.780	32.8	3.202								
4300	1.492	34.685	27.780	32.8	3.248								
4400	1.498	34.686	27.780	32.8	3.294								
4500	1.505	34.686	27.780	32.8	3.340								
4600	1.510	34.687	27.780	32.8	3.387								
4700	1.518	34.687	27.780	32.9	3.434								
4800	1.526	34.688	27.780	32.8	3.481								
4900	1.533	34.688	27.779	32.9	3.529								
5000	1.544	34.689	27.779	32.9	3.577								
5100	1.553	34.689	27.779	32.9	3.625								
5200	1.564	34.689	27.778	33.0	3.674								
5300	1.576	34.689	27.777	33.1	3.724								
5400	1.588	34.689	27.776	33.2	3.774								
5500	1.602	34.689	27.775	33.3	3.824								
5600	1.616	34.690	27.775	33.3	3.875								

RV THOMAS WASHINGTON

INDOPAC LEG 1

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LATITUDE		LONGITUDE		MO/DAY/YR		MESSAGE		TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES		
34 57. N		166 00. W		4/ 9/76		0031 0433		GMT	5687M	200	6KT	1	350 4 10		
Z	T	S	O2	P04	SIG3	N02	N03	DT	Z	T	S	O2	SIGT	DT	DD
0	14.62	34.328	6.14	0.08	6.2	0.00	0.0	243.8	0	14.62	34.328	6.14	25.556	243.8	0.000
15	14.36	34.312	6.17	0.08	6.2	0.00	0.1	239.7	10	14.41	34.315	6.16	25.592	240.4	0.024
36	14.29	34.313	6.18	0.08	6.1	0.00	0.1	238.2	20	14.34	34.313	6.17	25.604	239.3	0.046
50	14.26	34.315	6.18	0.10	5.8	0.00	0.1	237.9	30	14.31	34.314	6.18	25.611	238.6	0.072
60	14.25	34.317	6.12	0.07	6.0	0.00	0.1	237.1	50	14.28	34.315	6.18	25.619	237.9	0.120
76	14.16	34.315	6.08	0.08	5.9	0.01	0.3	235.5	75	14.17	34.316	6.08	25.642	235.6	0.160
100	13.60	34.310	5.81	0.18	6.9	0.48	1.6	228.7	100	13.80	34.310	5.81	25.715	228.7	0.238
125	13.42	34.294	5.74	0.26	7.5	0.19	4.0	222.4	125	13.42	34.294	5.74	25.781	222.4	0.295
150	12.99	34.300	5.75	0.31	6.3	0.30	4.7	213.7	150	12.99	34.300	5.75	25.873	213.7	0.351
175	12.44	34.295	5.43	0.53	10.6	0.00	8.5	203.8	200	12.21	34.334	5.31	26.052	196.7	0.456
200	12.21	34.334	5.31	0.68	12.0	0.00	9.7	196.7	250	11.58	34.304	5.44	26.184	184.1	0.554
249	11.39	34.304	5.44	0.73	15.0	0.00	11.6	184.3	300	10.82	34.267	5.53	26.256	177.3	0.647
299	10.84	34.267	5.53	0.84	16.2	0.00	12.2	177.5	400	9.10	34.139	5.06	26.449	159.0	0.823
398	9.13	34.140	5.07	1.17	26.3	0.00	17.5	159.3	500	7.41	34.049	4.27	26.634	141.4	0.981
496	7.49	34.052	4.32	1.62	39.9	0.00	24.0	142.2	600	5.57	34.005	3.04	26.842	121.7	1.120
595	5.63	34.003	3.10	2.25	67.4	0.00	32.7	122.5	700	4.63	34.055	1.91	26.989	107.6	1.241
692	4.70	34.048	2.00	2.64	87.8	0.00	38.6	108.9	800	4.13	34.125	1.35	27.099	97.3	1.351
752A	4.29	34.100	1.45	2.94	100.0		38.6	100.7	1000	3.40	34.295	0.45	27.308	77.5	1.540
791	4.16	34.117	1.39	2.91	104.6	0.00	41.8	98.2	1200	2.93	34.403	0.29	27.437	65.3	1.698
966	3.44	34.285	0.46	3.09	134.0	0.00	45.2	78.7	1500	2.51	34.509	0.66	27.559	53.7	1.901
1182	2.96	34.396	0.27	3.20	153.4	0.00	46.2	66.0	1750	2.40	34.574	1.05	27.635	46.5	2.047
1229A	2.89	34.414	0.32	3.28	155.4		44.9	64.1	2000	1.97	34.607	1.49	27.681	42.2	2.179
1707A	2.25	34.565	0.97	3.10	175.4		44.4	47.5	2250	1.79	34.625	1.93	27.709	39.4	2.303
2189A	1.83	34.621	1.63	2.93	182.1		41.2	40.1	2500	1.68	34.642	2.31	27.731	37.2	2.421
2671A	1.62	34.654	2.53	2.82	177.6		39.6	36.1	2750	1.60	34.657	2.61	27.749	35.6	2.535
3153A	1.51	34.670	2.96	2.66	172.7		37.8	34.1	3000	1.53	34.665	2.84	27.760	34.5	2.647
3637A	1.49	34.679	3.28	2.56	168.2		37.7	33.3	3250	1.51	34.673	3.03	27.768	33.9	2.757
4118A	1.48	34.687	3.54	2.53	163.8		36.7	32.6	3500	1.50	34.677	3.20	27.773	33.4	2.868
4600A	1.512	34.686	3.58	2.55	161.2		35.8	32.9	3750	1.49	34.682	3.35	27.777	33.1	2.979
5081A	1.555	34.688		2.54	157.0		36.0	33.0	4000	1.48	34.686	3.49	27.781	32.7	3.091
5465A	1.592	34.689	3.72E	2.53	154.4		35.5	33.2	4250	1.49	34.687	3.55	27.781	32.6	3.204
5556A	1.600	34.689	3.79E	2.49	154.0		36.8	33.3	4500	1.51	34.687	3.57	27.780	32.8	3.319
									4750	1.53	34.687	3.60	27.779	32.9	3.436
									5000	1.55	34.688	3.64	27.778	33.0	3.556
									5250	1.57	34.689	3.69	27.777	33.1	3.679
									5500	1.60	34.690	3.75	27.776	33.2	3.803

RV THOMAS WASHINGTON

INDOPAC LEG 1

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LATITUDE		LONGITUDE		MO/DAY/YR		MESSAGE		TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES		
35 01.6N		166 58. W		4/ 9/76		1023		GMT	5951M	220	12KT	1			
Z	T	S	O2	P04	SIG3	N02	N03	DT	Z	T	S	O2	SIGT	DT	DD
0	14.72	34.255	6.07					251.2	0	14.72	34.255	6.07	25.478	251.2	0.000
10	14.66	34.253	6.09					250.1	10	14.66	34.253	6.09	25.490	250.1	0.025
20	14.49	34.251	6.09					246.8	20	14.49	34.251	6.09	25.525	246.8	0.050
31	14.42	34.248	6.10					245.6	30	14.43	34.249	6.10	25.536	245.7	0.075
50	14.11	34.232	6.13					240.5	50	14.11	34.232	6.13	25.591	240.5	0.124
77	13.75	34.268	5.88					230.8	75	13.78	34.267	5.90	25.686	231.4	0.183
101	13.39	34.215	5.90					227.6	100	13.40	34.218	5.90	25.725	227.7	0.241
126	13.09	34.223	5.90					221.3	125	13.10	34.223	5.90	25.790	221.6	0.298
152	12.69	34.267	5.73					210.5	150	12.72	34.265	5.75	25.897	211.4	0.353
201	11.79	34.259	5.41					194.6	200	11.81	34.261	5.42	26.071	194.9	0.457
252	11.24	34.267	5.37					184.4	250	11.26	34.268	5.37	26.178	184.7	0.554
301	10.67	34.237	5.43					176.9	300	10.68	34.239	5.43	26.259	177.0	0.648
400	9.24	34.135	5.04					161.4	400	9.24	34.135	5.04	26.424	161.4	0.824
499	7.60	34.046	4.28					144.2	500	7.58	34.046	4.27	26.607	144.0	0.985
598	6.09	33.987	3.37					129.2	600	6.06	33.988	3.34	26.768	128.7	1.129
696	4.69	34.032	1.91					110.0	700	4.66	34.036	1.87	26.972	109.4	1.256
796	4.13	34.111	1.26					98.3	800	4.11	34.115	1.24	27.093	97.9	1.366
895	3.78	34.192	0.73					88.8	1000	3.42	34.286	0.39	27.298	78.5	1.557
993	3.44	34.260	0.39					79.0	1200	2.98	34.399	0.25	27.430	66.0	1.717
1193	2.99	34.395	0.25					66.4							

F) A BURETTE READING ERROR OF +0.1 MILLILITER (0.50 MILLILITER PER LITER) HAS BEEN ASSUMED.

45D						INDOPAC LEG 1						46									
LATITUDE		LONGITUDE		MO/DAY/YR		START TIME		LATITUDE		LONGITUDE		MO/DAY/YR		START TIME							
34 57. N		166 00. W		04/06/76		2235 GMT		35 01.6N		166 58. W		04/09/76		0936 GMT							
Z	T	S	SIGMA T	DT	DD							Z	T	S	SIGMA T	DT	DD				
0	14.62	34.30	25.535	245.9	0.000							0	14.64	34.24	25.484	250.7	0.000				
10	14.45	34.30	25.571	242.4	0.024							10	14.58	34.24	25.497	249.4	0.025				
20	14.35	34.30	25.592	240.4	0.049							20	14.51	34.24	25.533	246.0	0.050				
30	14.32	34.30	25.599	239.8	0.073							30	14.56	34.24	25.544	245.0	0.074				
40	14.26	34.31	25.615	236.2	0.097							40	14.23	34.23	25.564	243.1	0.099				
50	14.22	34.30	25.620	237.8	0.121							50	14.05	34.22	25.594	240.2	0.123				
75	14.02	34.30	25.662	233.8	0.180							75	13.74	34.26	25.689	231.2	0.183				
100	13.57	34.28	25.740	226.4	0.238							100	13.42	34.22	25.724	227.8	0.241				
125	12.91	34.27	25.865	214.4	0.294							125	13.07	34.21	25.787	221.9	0.298				
150	12.58	34.29	25.946	206.8	0.347							150	12.64	34.21	25.872	213.8	0.353				
175	12.22	34.32	26.039	197.9	0.399							175	12.26	34.26	25.985	203.1	0.406				
200	11.67	34.30	26.128	189.5	0.449							200	11.82	34.26	26.069	195.1	0.457				
225	11.36	34.27	26.162	186.2	0.497							225	11.41	34.27	26.153	187.1	0.506				
250	11.07	34.26	26.207	182.0	0.544							250	11.16	34.26	26.191	183.5	0.554				
275	10.71	34.25	26.248	178.1	0.591							275	10.97	34.26	26.225	180.2	0.601				
300	10.36	34.20	26.286	174.4	0.636							300	10.66	34.24	26.265	176.5	0.647				
350	9.64	34.14	26.362	167.3	0.725							350	10.02	34.18	26.329	170.4	0.737				
400	8.90	34.11	26.459	158.1	0.810							400	9.24	34.13	26.420	161.8	0.824				
450	8.11	34.06	26.541	150.3	0.891							450	8.44	34.09	26.515	152.8	0.906				
500	7.17	34.01	26.638	141.1	0.968							500	7.56	34.04	26.606	144.1	0.985				
550	6.27	33.97	26.727	132.6	1.040							550	6.72	34.01	26.699	135.2	1.059				
600	5.76	33.96	26.800	125.8	1.108							600	6.04	33.99	26.772	128.3	1.128				
650	5.12	33.99	26.884	117.7	1.173							650	5.32	34.00	26.865	119.2	1.194				
700	4.74	34.02	26.951	111.4	1.234							700	4.72	34.03	26.961	110.4	1.255				
750	4.41	34.06	27.019	105.0	1.291							750	4.39	34.07	27.029	104.0	1.312				
800	4.12	34.10	27.081	99.1	1.346							800	4.12	34.12	27.097	97.5	1.366				
850	3.87	34.15	27.146	92.9	1.397							850	3.92	34.16	27.149	92.6	1.417				
900	3.69	34.20	27.204	87.4	1.446							900	3.75	34.20	27.198	87.9	1.466				
950	3.53	34.24	27.252	82.9	1.492							950	3.56	34.25	27.257	82.4	1.512				
1000	3.41	34.27	27.287	79.5	1.536							1000	3.40	34.29	27.304	77.9	1.556				
1100	3.12	34.34	27.370	71.6	1.619							1100	3.17	34.35	27.373	71.3	1.638				
1200	2.88	34.39	27.432	65.8	1.696							1200	2.97	34.40	27.432	65.8	1.715				
1300	2.77	34.44	27.481	61.1	1.767																
1400	2.60	34.47	27.520	57.4	1.834																
1500	2.42	34.49	27.551	54.5	1.898																
1600	2.316	34.520	27.584	51.4	1.959																
1700	2.223	34.554	27.619	48.1	2.017																
1800	2.134	34.569	27.638	46.3	2.073																
1900	2.033	34.585	27.659	44.3	2.126																
2000	1.937	34.599	27.678	42.5	2.178																
2100	1.875	34.609	27.690	41.3	2.229																
2200	1.794	34.621	27.706	39.8	2.278																
2300	1.744	34.629	27.716	38.8	2.326																
2400	1.693	34.637	27.726	37.9	2.373																
2500	1.652	34.643	27.734	37.1	2.419																
2600	1.620	34.647	27.740	36.6	2.465																
2700	1.599	34.651	27.745	36.1	2.510																
2800	1.580	34.655	27.749	35.7	2.555																
2900	1.561	34.659	27.754	35.3	2.600																
3000	1.536	34.663	27.759	34.8	2.645																
3100	1.523	34.666	27.762	34.5	2.690																
3200	1.507	34.668	27.765	34.2	2.734																
3300	1.496	34.671	27.768	33.9	2.778																
3400	1.488	34.674	27.771	33.6	2.822																
3500	1.482	34.676	27.773	33.4	2.867																
3600	1.480	34.678	27.775	33.3	2.911																
3700	1.479	34.680	27.777	33.1	2.955																
3800	1.475	34.681	27.778	33.0	3.000																
3900	1.475	34.681	27.778	33.0	3.045																
4000	1.479	34.683	27.779	32.9	3.089																
4100	1.480	34.686	27.781	32.7	3.134																
4200	1.486	34.686	27.781	32.7	3.180																
4300	1.493	34.687	27.781	32.7	3.225																
4400	1.498	34.686	27.780	32.8	3.271																
4500	1.505	34.686	27.780	32.8	3.318																
4600	1.510	34.687	27.780	32.8	3.364																
4700	1.517	34.687	27.780	32.8																	

RV THOMAS WASHINGTON										INDOPAC LEG 1					
LATITUDE		LONGITUDE		MO/DAY/YR		MESSENGER		TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES		
35 02.2N		168 00.5W		4/ 9/76		1725 2057		GMT	5925M	20U	14KT	1	4		
Z	T	S	O2	P04	S103	N02	N03	DT	Z	T	S	O2	SIGT	DT	DD
1	15.28	34.391	6.00	0.09	6.8	0.00	0.0	252.9	0	15.28	34.391	6.00	25.460	252.9	0.000
11	15.23	34.388	6.01	0.10	6.7	0.00	0.0	252.1	10	15.24	34.389	6.01	25.468	252.2	0.025
16	15.20	34.390	5.94	0.10	6.9	0.00	0.0	251.3	20	15.19	34.389	5.97	25.479	251.1	0.050
27	15.16	34.344	6.01	0.10	6.8	0.00	0.0	250.9	30	15.05	34.380	6.04	25.502	249.0	0.076
42	14.51	34.356	6.12	0.11	6.9	0.00	0.0	239.5	50	14.22	34.339	6.06	25.649	235.0	0.124
61	13.93	34.317	5.94	0.19	7.1	0.14	0.5	230.7	75	13.86	34.313	5.88	25.705	229.7	0.183
77	13.85	34.312		0.21	7.2	0.25	0.8	229.5	100	13.74	34.316	5.79	25.733	227.0	0.240
102	13.72	34.316	5.79	0.23	7.2	0.62	1.5	226.7	125	13.52	34.331	5.66	25.829	217.8	0.297
127	13.28	34.332	5.64	0.41	7.9	0.12	4.4	216.9	150	12.90	34.369	5.37	25.944	207.0	0.351
153	12.85	34.373	5.34	0.56	10.4	0.03	7.8	205.7	200	12.06	34.367	5.27	26.105	191.7	0.453
202	12.03	34.364	5.27	0.77	13.1	0.00	10.5	191.2	250	11.34	34.313	5.35	26.199	182.7	0.549
252	11.31	34.310	5.35	0.85	15.4	0.01	11.5	182.4	300	10.63	34.262	5.34	26.287	174.4	0.641
302	10.60	34.259	5.34	0.92	17.7	0.00	13.1	174.1	400	9.20	34.150	5.07	26.441	159.7	0.816
402	9.17	34.147	5.06	1.25	25.1	0.00	17.1	159.4	500	7.48	34.064	4.18	26.636	141.3	0.974
502	7.44	34.061	4.18		41.2	0.00	24.4	140.9	600	5.82	34.005	3.09	26.812	124.6	1.115
601	5.80	34.004	3.06	2.28	63.6	0.00	31.9	124.4	700	4.70	34.058	1.91	26.985	108.1	1.238
700	4.70	34.058	1.91	2.75	88.0	0.00	38.8	108.1	800	4.14	34.152	1.21	27.119	95.4	1.347
774A	4.36	34.123	1.32	2.89	99.3		39.2	99.7	1000	3.45	34.293	0.52	27.301	78.3	1.536
799	4.15	34.151	1.21	2.99	106.3	0.00	41.8	95.5	1200	2.95	34.409	0.26	27.440	65.1	1.694
997	3.46	34.290	0.53	3.17	132.8	0.00	44.7	78.5	1500	2.49	34.542	0.55	27.586	51.1	1.893
1197	2.96	34.406	0.26	3.31	152.5	0.00	45.8	65.3	1750	2.20	34.574	1.02	27.635	46.6	2.036
1275A	2.62	34.462	0.27	3.21	157.8	0.00	45.0	59.9	2000	1.97	34.605	1.46	27.679	42.4	2.169
1776A	2.19	34.572	1.08	3.07	176.3	0.04	44.2	46.4	2250	1.79	34.630	1.88	27.713	39.2	2.292
2279A	1.77	34.631	1.93	2.92	181.0	0.04	40.9	38.9	2500	1.67	34.643	2.27	27.732	37.0	2.410
2780A	1.59	34.661	2.64	2.74	175.4	0.04	39.2	35.3	2750	1.60	34.660	2.60	27.751	35.5	2.523
3279A	1.50	34.676	3.01	2.61	171.0	0.03	38.2	33.6	3000	1.54	34.668	2.83	27.762	34.4	2.635
3777A	1.48	34.680	3.28	2.59	166.8	0.00	37.2	33.1	3250	1.50	34.676	2.99	27.771	33.6	2.745
4272A	1.49	34.686	3.48	2.54	162.6	0.00	37.2	32.7	3500	1.49	34.678	3.14	27.774	33.3	2.855
4767A	1.530	34.688	3.56	2.54	160.9	0.00	36.8	32.9	3750	1.48	34.680	3.27	27.776	33.1	2.966
5257A	1.576	34.689	3.66	2.53	157.2	0.01	36.5	33.1	4000	1.48	34.683	3.38	27.779	32.9	3.078
5647A	1.614	34.690	3.890	2.52	154.0	0.00	36.0	33.3	4250	1.49	34.686	3.47	27.781	32.7	3.191
5744A	1.624	34.690	3.75		153.0	0.00	36.2	33.4	4500	1.51	34.688	3.52	27.780	32.8	3.306
									4750	1.53	34.689	3.56	27.779	32.8	3.424
									5000	1.55	34.689	3.61	27.778	33.0	3.544
									5250	1.58	34.690	3.66	27.777	33.1	3.666
									5500	1.60	34.690	3.70	27.776	33.2	3.791

RV THOMAS WASHINGTON										INDOPAC LEG 1									
LATITUDE		LONGITUDE		MO/DAY/YR		MESSENGER		TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES						
34 59.7N		168 59.6W		4/10/76		0251 GMT			6028M	22U	12KT	1	240 5 6						
Z	T	S	O2	P04	S103	N02	N03	DT	Z	T	S	O2	SIGT	DT	DD				
0	15.66	34.462	6.00					255.8	0	15.66	34.462	6.00	25.430	255.8	0.000				
10	15.47	34.461	5.99					251.8	10	15.47	34.461	5.99	25.472	251.8	0.025				
20	15.11	34.447	6.07					245.2	20	15.11	34.447	6.07	25.541	245.2	0.050				
31	15.02	34.442	6.05					243.7	30	15.03	34.443	6.05	25.556	243.8	0.075				
50	14.36	34.391	5.95					233.9	50	14.36	34.391	5.95	25.660	233.9	0.123				
76	13.92	34.360	5.86					227.4	75	13.93	34.361	5.86	25.727	227.5	0.181				
101	13.76	34.354	5.80					224.7	100	13.77	34.355	5.80	25.756	224.8	0.238				
125	13.41	34.349	5.75					218.2	125	13.41	34.349	5.75	25.826	218.2	0.294				
151	13.06	34.346	5.70					211.7	150	13.07	34.347	5.70	25.891	211.9	0.349				
201	12.32	34.374	5.31					195.8	200	12.33	34.374	5.32	26.058	196.1	0.453				
251	11.67	34.353	5.35					187.1	250	11.68	34.355	5.35	26.152	187.2	0.552				
300	11.17	34.301	5.36					180.6	300	11.17	34.301	5.36	26.221	180.6	0.647				
401	9.74	34.189	5.16					165.2	400	9.76	34.191	5.16	26.382	165.4	0.827				
500	8.19	34.096	4.52					148.7	500	8.19	34.096	4.52	26.557	148.7	0.993				
600	6.36	34.008	3.61					130.9	600	6.36	34.008	3.61	26.745	130.9	1.141				
700	5.07	34.023	2.45					114.7	700	5.07	34.023	2.45	26.916	114.7	1.272				
800	4.30	34.106	1.50					100.4	800	4.30	34.106	1.50	27.067	100.4	1.387				
897	3.81	34.205	0.62					88.1	1000	3.41	34.299	0.44	27.310	77.5	1.580				
995	3.42	34.293	0.45					77.9	1200	2.95	34.405	0.25	27.437	65.3	1.738				
1192	2.97	34.401	0.25					65.7											

47D						INDOPAC LEG I						48					
LATITUDE	LONGITUDE	MO/DAY/YR	START TIME			LATITUDE	LONGITUDE	MO/DAY/YR	START TIME			LATITUDE	LONGITUDE	MO/DAY/YR	START TIME		
35 02.2N	168 00.5W	04/09/76	1555 GMT			34 59.7N	168 59.6W	04/10/76	0216 GMT			34 59.7N	168 59.6W	04/10/76	0216 GMT		
Z	T	S	SIGMA T	DT	DD	Z	T	S	SIGMA T	DT	DD	Z	T	S	SIGMA T	DT	DD
0	15.17	34.36	25.461	252.9	0.000	0	15.58	34.46	25.447	254.2	0.000	0	15.58	34.46	25.447	254.2	0.000
10	15.16	34.36	25.463	252.7	0.025	10	15.48	34.46	25.469	252.1	0.025	10	15.48	34.46	25.469	252.1	0.025
20	15.15	34.36	25.465	252.4	0.051	20	15.28	34.45	25.506	248.6	0.050	20	15.28	34.45	25.506	248.6	0.050
30	15.10	34.36	25.476	251.4	0.076	30	15.10	34.44	25.538	245.5	0.075	30	15.10	34.44	25.538	245.5	0.075
40	14.80	34.34	25.526	246.6	0.101	40	14.87	34.42	25.573	242.2	0.100	40	14.87	34.42	25.573	242.2	0.100
50	14.19	34.30	25.626	237.2	0.125	50	14.53	34.39	25.623	237.4	0.124	50	14.53	34.39	25.623	237.4	0.124
75	13.76	34.29	25.708	229.3	0.184	75	13.96	34.33	25.698	230.4	0.183	75	13.96	34.33	25.698	230.4	0.183
100	13.42	34.30	25.786	222.0	0.241	100	13.84	34.35	25.738	226.5	0.240	100	13.84	34.35	25.738	226.5	0.240
125	12.84	34.35	25.941	207.2	0.295	125	13.44	34.34	25.804	220.2	0.297	125	13.44	34.34	25.804	220.2	0.297
150	12.51	34.36	26.014	200.3	0.347	150	13.10	34.33	25.874	213.6	0.352	150	13.10	34.33	25.874	213.6	0.352
175	12.04	34.34	26.089	193.2	0.397	175	12.80	34.36	25.957	205.7	0.406	175	12.80	34.36	25.957	205.7	0.406
200	11.64	34.31	26.141	188.2	0.446	200	12.42	34.38	26.047	197.2	0.457	200	12.42	34.38	26.047	197.2	0.457
225	11.34	34.29	26.181	184.4	0.494	225	12.01	34.34	26.095	192.6	0.507	225	12.01	34.34	26.095	192.6	0.507
250	11.03	34.26	26.214	181.3	0.541	250	11.67	34.32	26.143	188.0	0.556	250	11.67	34.32	26.143	188.0	0.556
275	10.76	34.25	26.255	177.4	0.587	275	11.46	34.32	26.182	184.3	0.604	275	11.46	34.32	26.182	184.3	0.604
300	10.49	34.22	26.279	175.1	0.633	300	11.16	34.30	26.222	180.6	0.652	300	11.16	34.30	26.222	180.6	0.652
350	9.74	34.18	26.377	165.9	0.722	350	10.40	34.23	26.303	172.9	0.744	350	10.40	34.23	26.303	172.9	0.744
400	9.01	34.13	26.457	156.3	0.806	400	9.76	34.19	26.381	165.5	0.832	400	9.76	34.19	26.381	165.5	0.832
450	8.19	34.08	26.545	149.9	0.887	450	8.85	34.12	26.474	156.6	0.917	450	8.85	34.12	26.474	156.6	0.917
500	7.18	34.02	26.644	140.5	0.964	500	8.16	34.10	26.565	148.0	0.997	500	8.16	34.10	26.565	148.0	0.997
550	6.49	33.99	26.714	133.8	1.036	550	7.17	34.03	26.654	139.6	1.073	550	7.17	34.03	26.654	139.6	1.073
600	5.93	33.98	26.778	127.8	1.105	600	6.35	34.01	26.748	130.6	1.145	600	6.35	34.01	26.748	130.6	1.145
650	5.18	34.00	26.885	117.7	1.171	650	5.42	34.00	26.857	120.3	1.212	650	5.42	34.00	26.857	120.3	1.212
700	4.76	34.04	26.964	110.1	1.231	700	5.02	34.03	26.927	113.7	1.274	700	5.02	34.03	26.927	113.7	1.274
750	4.45	34.08	27.030	103.9	1.288	750	4.60	34.06	26.998	106.9	1.333	750	4.60	34.06	26.998	106.9	1.333
800	4.23	34.12	27.085	98.6	1.342	800	4.27	34.12	27.081	99.0	1.388	800	4.27	34.12	27.081	99.0	1.388
850	4.01	34.16	27.140	93.5	1.394	850	4.00	34.16	27.141	93.4	1.440	850	4.00	34.16	27.141	93.4	1.440
900	3.78	34.20	27.195	88.2	1.443	900	3.79	34.21	27.202	87.6	1.489	900	3.79	34.21	27.202	87.6	1.489
950	3.57	34.25	27.256	82.5	1.490	950	3.60	34.26	27.261	82.0	1.535	950	3.60	34.26	27.261	82.0	1.535
1000	3.43	34.28	27.293	78.9	1.534	1000	3.40	34.30	27.312	77.2	1.579	1000	3.40	34.30	27.312	77.2	1.579
1100	3.17	34.34	27.365	72.1	1.617	1100	3.16	34.36	27.382	70.5	1.660	1100	3.16	34.36	27.382	70.5	1.660
1200	3.94	34.39	27.330	75.5	1.700	1200	2.94	34.41	27.442	64.8	1.735	1200	2.94	34.41	27.442	64.8	1.735
1300	2.78	34.43	27.472	61.9	1.778												
1400	2.64	34.47	27.517	57.8	1.845												
1500	2.51	34.50	27.552	54.4	1.910												
1600	2.365	34.531	27.589	50.9	1.971												
1700	2.237	34.557	27.620	48.0	2.029												
1800	2.137	34.572	27.640	46.1	2.084												
1900	2.031	34.587	27.661	44.1	2.137												
2000	1.947	34.600	27.678	42.5	2.189												
2100	1.876	34.611	27.692	41.2	2.240												
2200	1.826	34.620	27.703	40.2	2.289												
2300	1.762	34.630	27.716	38.9	2.337												
2400	1.711	34.638	27.726	37.9	2.384												
2500	1.668	34.645	27.735	37.1	2.431												
2600	1.637	34.649	27.740	36.6	2.477												
2700	1.612	34.655	27.747	35.9	2.522												
2800	1.592	34.658	27.751	35.6	2.567												
2900	1.566	34.663	27.757	35.0	2.612												
3000	1.552	34.665	27.759	34.7	2.657												
3100	1.539	34.668	27.763	34.4	2.701												
3200	1.525	34.671	27.766	34.1	2.746												
3300	1.514	34.672	27.768	34.0	2.790												
3400	1.503	34.677	27.773	33.5	2.834												
3500	1.494	34.679	27.775	33.3	2.879												
3600	1.490	34.680	27.776	33.2	2.923												
3700	1.465	34.681	27.777	33.1	2.967												
3800	1.482	34.682	27.778	33.0	3.012												
3900	1.486	34.684	27.779	32.9	3.056												
4000	1.484	34.686	27.781	32.7	3.101												
4100	1.488	34.689	27.783	32.5	3.146												
4200	1.491	34.689	27.783	32.5	3.191												
4300	1.495	34.691	27.784	32.4	3.237												
4400	1.502	34.693	27.785	32.3	3.282												
4500	1.507	34.692	27.784	32.4	3.328												
4600	1.516	34.696	27.787	32.2	3.375												
4700	1.525	34.697	27.787	32.1	3.421												
4800	1.532	34.695	27.785	32.3	3.468												
4900	1.538	34.691	27.781	32.7	3.515												
5000	1.547	34.683	27.774	33.4	3.564												
5100	1.557	34.681	27.772	33.6	3.613												
5200	1.567	34.685	27.774	33.3	3.662												
5300	1.576	34.688	27.776	33.2	3.712												
5400	1.587	34.692	27.779	32.9	3.761												
5500	1.599	34.692	27.778	33.0	3.812												
5600	1.609	34.681	27.768	33.9	3.863												
5700	1.619	34.680	27.767	34.1	3.914												
5800	1.632																

RV THOMAS WASHINGTON

INDOPAC LEG 1

	LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES					
	35 00.0N	170 00.0 W	4/10/76	1019 1334	GMT	5907M	210	17KT	1						
Z	T	S	O2	P04	SI03	N02	N03	DT	Z	T	S	O2	SIGT	DT	DD
0	16.10	34.536	5.84	0.14	5.8	0.00	0.0	259.9	0	16.10	34.536	5.84	25.387	259.9	0.000
10	16.09	34.532	5.830	0.16	5.7	0.00	0.0	259.9	10	16.09	34.532	5.85	25.386	259.9	0.026
20	16.07	34.533	5.85	0.11	5.7	0.00	0.0	259.4	20	16.07	34.533	5.85	25.392	259.4	0.052
30	16.03	34.532	5.85	0.11	5.6	0.00	0.1	258.6	30	16.03	34.532	5.85	25.400	258.6	0.078
40	15.32	34.504	5.75	0.17	5.5	0.14	0.8	245.5	40	15.36	34.506	5.75	25.531	246.2	0.129
50	15.13	34.498	5.62	0.23	5.5	0.29	1.8	241.9	50	14.44	34.463	5.61	25.698	230.3	0.189
60	14.39	34.460	5.61	0.29	6.7	0.20	3.2	229.5	100	13.70	34.405	5.77	25.809	219.7	0.246
70	13.86	34.421	5.68	0.28	7.5	0.42	3.6	221.7	125	13.60	34.467	5.21	25.876	213.4	0.301
80	13.70	34.405	5.77	0.26	7.5	0.33	3.2	219.7	150	13.05	34.383	5.68	25.923	208.9	0.354
90	13.60	34.468	5.19	0.49	9.3	0.00	7.8	213.2	200	12.53	34.377	5.29	26.061	195.8	0.458
100	13.00	34.373	5.73	0.39	8.2	0.23	5.2	208.6	250	11.70	34.341	5.29	26.153	187.1	0.556
110	12.32	34.377	5.27	0.64	11.8	0.00	10.0	195.6	300	10.93	34.278	5.35	26.246	178.2	0.651
120	11.69	34.359	5.29	0.74	13.7	0.00	11.2	187.0	400	9.13	34.147	5.06	26.450	158.9	0.826
130	10.93	34.278	5.35	0.84	15.8	0.00	12.3	178.2	500	7.43	34.049	4.28	26.631	141.7	0.985
140	9.11	34.145	5.05	1.18	26.5	0.00	17.1	158.7	600	5.82	34.000	3.11	26.807	125.0	1.126
150	7.45	34.049	4.29	1.63	41.2	0.00	24.1	141.9	700	4.79	34.060	2.02	26.976	109.0	1.250
160	5.83	33.999	3.12	2.34	63.2	0.00	31.7	125.2	800	4.11	34.151	1.17	27.122	95.1	1.359
170	4.12	34.149	1.10	3.05	107.0	0.00	41.7	95.4	1000	3.06	34.310	0.54	27.323	76.2	1.545
180A	3.84	34.181	0.91	3.09	116.8	0.00	43.2	90.2	1200	2.91	34.403	0.40	27.438	65.2	1.702
190	3.37	34.308	0.54	3.24	135.8	0.00	44.5	76.3	1500	2.52	34.526	0.63	27.571	52.7	1.902
200	2.92	34.400	0.40	3.23	152.6	0.00	45.5	65.4	1700	2.20	34.580	0.99	27.640	46.0	2.047
210A	2.74	34.474	0.47	3.23	159.2	0.00	45.9	58.3	2000	1.96	34.610	1.44	27.684	41.9	2.178
220A	2.09	34.500	1.15	3.12	178.5	0.00	44.1	44.3	2250	1.80	34.630	1.91	27.712	39.2	2.301
230A	1.76	34.634	2.08	2.94	179.4	0.00	41.8	38.6	2500	1.69	34.641	2.30	27.729	37.4	2.419
240A	1.59	34.657	2.69	2.79	174.1	0.00	39.8	35.6	2750	1.61	34.653	2.60	27.744	36.0	2.534
250A	1.51	34.672	3.03	2.65	169.7	0.00	38.5	33.9	3000	1.56	34.662	2.81	27.756	35.0	2.647
260A	1.50	34.681	3.36	2.63	166.6	0.00	37.8	33.2	3250	1.52	34.669	2.98	27.765	34.2	2.759
270A	1.50	34.685	3.51	2.60	162.3	0.00	37.2	32.9	3500	1.51	34.676	3.15	27.771	33.6	2.870
280A	1.539	34.687	3.58	2.56	161.3	0.00	37.2	33.0	3750	1.50	34.680	3.31	27.775	33.3	2.982
290A	1.585	34.691	3.68	2.54	156.3	0.00	36.7	33.0	4000	1.50	34.683	3.42	27.777	33.0	3.095
300A	1.628	34.692	3.690	2.52	155.3	0.00	36.6	33.2	4250	1.50	34.685	3.49	27.779	32.9	3.209
310A	1.637	34.693	3.76	2.52	154.6	0.00	36.6	33.2	4500	1.51	34.686	3.53	27.779	32.9	3.325
									4750	1.53	34.687	3.57	27.778	33.0	3.442
									5000	1.56	34.689	3.62	27.778	33.0	3.562
									5250	1.58	34.691	3.67	27.778	33.0	3.685
									5500	1.61	34.692	3.71	27.777	33.1	3.810
									5750	1.63	34.693	3.75	27.776	33.2	3.938

RV THOMAS WASHINGTON

INDOPAC LEG 1

LATITUDE		LONGITUDE		MO/DAY/YR		MESSENGER		TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES		
34 59.4N		171 00.9W		4/10/76		1940		GMT	5952M	200	19KT	2	280 10 15		
Z	T	S	O2	P04	SI03	N02	N03	DT	Z	T	S	O2	SIGT	DT	DD
1	15.02	34.363	6.10					249.5	0	15.02	34.363	6.10	25.496	249.5	0.000
10	14.99	34.361	6.11					249.0	10	14.99	34.361	6.11	25.501	249.0	0.025
19	14.94	34.361	6.11					248.0	20	14.93	34.363	6.12	25.516	247.7	0.050
30	14.55	34.361	6.21					240.0	30	14.55	34.361	6.21	25.596	240.0	0.074
39	13.69	34.339	6.21					224.4	50	13.69	34.331	6.07	25.815	219.2	0.120
48	13.44	34.334	6.09					219.9	75	12.88	34.293	5.87	25.888	212.2	0.175
72	12.93	34.292	5.90					213.2	100	12.50	34.302	5.68	25.971	204.4	0.227
96	12.56	34.302	5.70					205.5	125	12.14	34.308	5.52	26.044	197.4	0.278
120	12.20	34.302	5.56					198.9	150	11.85	34.328	5.37	26.116	190.7	0.328
144	11.93	34.327	5.37					192.2	200	11.15	34.298	5.35	26.221	180.7	0.423
191	11.27	34.305	5.34					182.1	250	10.51	34.246	5.37	26.295	173.6	0.514
238	10.67	34.258	5.38					175.3	300	9.87	34.194	5.31	26.364	167.0	0.602
286	10.04	34.206	5.34					168.8	400	8.54	34.101	4.85	26.507	153.5	0.769
381	8.84	34.119	4.99					156.5	500	7.01	34.021	4.00	26.668	138.2	0.922
476	7.34	34.036	4.20					141.4	600	5.74	33.996	2.99	26.813	124.4	1.061
572	6.10	33.993	3.32					128.8	700	4.71	34.044	1.90	26.972	109.4	1.185
667	4.98	34.020	2.21					114.0	800	4.11	34.128	1.17	27.104	96.9	1.295
763	4.30	34.094	1.40					101.3	1000	3.40	34.294	0.45	27.306	77.7	1.484
957	3.53	34.262	0.51					81.2							
1156	3.02	34.381	0.25					67.7							

49D						INDOPAC LEG I						50					
LATITUDE	LONGITUDE	MO/DAY/YR	START TIME			LATITUDE	LONGITUDE	MO/DAY/YR	START TIME			LATITUDE	LONGITUDE	MO/DAY/YR	START TIME		
55 00.8N	170 00. W	04/10/76	0810 GMT			34 59.4N	171 00.9W	04/10/76	1900 GMT								
Z	T	S	SIGMA T	DT	DD	Z	T	S	SIGMA T	DT	DD	Z	T	S	SIGMA T	DT	DD
0	16.01	34.50	25.380	260.5	0.000	0	15.00	34.34	25.483	250.8	0.000	0	15.00	34.34	25.483	250.8	0.000
10	16.01	34.50	25.380	260.5	0.026	10	14.81	34.35	25.532	246.1	0.025	10	14.81	34.35	25.532	246.1	0.025
20	15.93	34.50	25.398	258.8	0.052	20	14.35	34.34	25.623	237.5	0.049	20	14.35	34.34	25.623	237.5	0.049
30	15.74	34.50	25.441	254.7	0.078	30	13.68	34.32	25.754	225.0	0.072	30	13.68	34.32	25.754	225.0	0.072
40	15.50	34.49	25.488	250.3	0.103	40	13.46	34.32	25.793	221.3	0.095	40	13.46	34.32	25.793	221.3	0.095
50	15.21	34.48	25.544	244.9	0.128	50	13.29	34.31	25.820	218.7	0.117	50	13.29	34.31	25.820	218.7	0.117
75	14.54	34.46	25.675	232.5	0.188	75	12.75	34.29	25.912	209.9	0.171	75	12.75	34.29	25.912	209.9	0.171
100	13.76	34.35	25.755	224.9	0.246	100	12.36	34.29	25.989	202.7	0.223	100	12.36	34.29	25.989	202.7	0.223
125	13.73	34.42	25.815	219.2	0.302	125	12.09	34.30	26.048	197.0	0.274	125	12.09	34.30	26.048	197.0	0.274
150	13.28	34.39	25.884	212.7	0.357	150	11.86	34.31	26.100	192.1	0.323	150	11.86	34.31	26.100	192.1	0.323
175	12.88	34.34	25.925	208.7	0.411	175	11.45	34.30	26.169	185.6	0.371	175	11.45	34.30	26.169	185.6	0.371
200	12.63	34.36	25.990	202.5	0.464	200	11.17	34.28	26.204	182.2	0.418	200	11.17	34.28	26.204	182.2	0.418
225	12.27	34.36	26.060	195.9	0.515	225	10.84	34.27	26.256	177.3	0.464	225	10.84	34.27	26.256	177.3	0.464
250	11.74	34.32	26.130	189.3	0.564	250	10.53	34.24	26.288	174.3	0.510	250	10.53	34.24	26.288	174.3	0.510
275	11.35	34.29	26.179	184.6	0.613	275	10.24	34.22	26.323	171.0	0.554	275	10.24	34.22	26.323	171.0	0.554
300	10.93	34.26	26.232	179.6	0.660	300	9.90	34.20	26.365	167.0	0.598	300	9.90	34.20	26.365	167.0	0.598
350	10.19	34.20	26.316	171.6	0.751	350	9.19	34.12	26.420	161.8	0.684	350	9.19	34.12	26.420	161.8	0.684
400	9.31	34.13	26.408	162.9	0.839	400	8.54	34.10	26.507	153.5	0.766	400	8.54	34.10	26.507	153.5	0.766
450	8.53	34.09	26.501	154.1	0.922	450	7.61	34.04	26.599	144.8	0.844	450	7.61	34.04	26.599	144.8	0.844
500	7.44	34.04	26.623	142.5	1.000	500	6.82	34.01	26.686	136.5	0.918	500	6.82	34.01	26.686	136.5	0.918
550	6.48	34.00	26.723	133.0	1.073	550	6.26	33.99	26.744	131.0	0.969	550	6.26	33.99	26.744	131.0	0.969
600	5.63	33.98	26.815	124.2	1.141	600	5.50	33.99	26.839	122.0	1.055	600	5.50	33.99	26.839	122.0	1.055
650	5.10	34.00	26.894	116.8	1.205	650	5.08	34.01	26.904	115.8	1.118	650	5.08	34.01	26.904	115.8	1.118
700	4.72	34.04	26.969	109.7	1.265	700	4.70	34.04	26.971	109.5	1.178	700	4.70	34.04	26.971	109.5	1.178
750	4.38	34.09	27.046	102.4	1.321	750	4.36	34.07	27.030	103.9	1.235	750	4.36	34.07	27.030	103.9	1.235
800	4.16	34.13	27.101	97.2	1.375	800	4.09	34.12	27.100	97.3	1.289	800	4.09	34.12	27.100	97.3	1.289
850	3.92	34.17	27.157	91.8	1.426	850	3.93	34.16	27.148	92.7	1.340	850	3.93	34.16	27.148	92.7	1.340
900	3.74	34.21	27.207	87.1	1.474	900	3.74	34.20	27.199	87.6	1.389	900	3.74	34.20	27.199	87.6	1.389
950	3.59	34.24	27.246	83.4	1.520	950	3.52	34.26	27.269	81.3	1.435	950	3.52	34.26	27.269	81.3	1.435
1000	3.48	34.27	27.280	80.2	1.565	1000	3.36	34.30	27.316	76.8	1.478	1000	3.36	34.30	27.316	76.8	1.478
1100	3.19	34.33	27.356	73.0	1.649	1100	3.11	34.38	27.403	68.5	1.558	1100	3.11	34.38	27.403	68.5	1.558
1200	2.95	34.38	27.417	67.2	1.727	1156	2.98	34.44	27.463	62.9	1.599						
1300	2.78	34.43	27.472	61.9	1.799												
1400	2.64	34.47	27.517	57.8	1.867												
1500	2.53	34.50	27.550	54.6	1.932												
1600	2.380	34.527	27.584	51.4	1.993												
1700	2.248	34.545	27.610	49.0	2.052												
1800	2.141	34.565	27.634	46.6	2.108												
1900	2.031	34.579	27.654	44.7	2.162												
2000	1.963	34.591	27.669	43.3	2.214												
2100	1.898	34.602	27.683	42.0	2.266												
2200	1.838	34.612	27.696	40.8	2.316												
2300	1.774	34.623	27.709	39.5	2.365												
2400	1.726	34.631	27.719	38.6	2.413												
2500	1.695	34.637	27.726	37.9	2.460												
2600	1.651	34.644	27.735	37.0	2.506												
2700	1.627	34.649	27.741	36.5	2.553												
2800	1.603	34.653	27.746	36.0	2.598												
2900	1.577	34.658	27.752	35.5	2.644												
3000	1.559	34.662	27.756	35.0	2.689												
3100	1.542	34.664	27.759	34.8	2.733												
3200	1.530	34.667	27.763	34.5	2.778												
3300	1.516	34.670	27.766	34.1	2.823												
3400	1.511	34.672	27.768	33.9	2.868												
3500	1.504	34.675	27.771	33.7	2.912												
3600	1.500	34.677	27.773	33.5	2.957												
3700	1.496	34.678	27.774	33.4	3.002												
3800	1.494	34.681	27.777	33.1	3.046												
3900	1.492	34.683	27.778	33.0	3.091												
4000	1.490	34.683	27.776	33.0	3.136												
4100	1.492	34.685	27.780	32.8	3.182												
4200	1.497	34.688	27.782	32.6	3.227												
4300	1.501	34.688	27.782	32.7	3.273												
4400	1.507	34.689	27.782	32.6	3.319												
4500	1.513	34.688	27.781	32.7	3.365												
4600	1.520	34.688	27.780	32.8	3.412												
4700	1.526	34.690	27.781	32.7	3.459												
4800	1.536	34.691	27.781	32.7	3.506												
4900	1.543	34.694	27.783	32.5	3.554												
5000	1.552	34.684	27.775	33.3	3.602												
5100	1.563	34.666	27.775	33.2	3.651												
5200	1.571																
5300	1.581																
5400	1.593																
5500	1.602																
5600	1.616																
5700	1.625																
5800	1.637																

RV THOMAS WASHINGTON

INDOPAC LEG I

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LATITUDE		LONGITUDE		MO/DAY/YR		MESSENGER		TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES		
34 56.6N		172 02. W		4/11/76		0251 0712		GMT	6128M	190	16KT		280 12 18		
Z	T	S	02	P04	S103	N02	N03	DT	Z	T	S	02	SIGT	DT	DD
1	14.69	34.376	6.09	0.23	8.4	0.00	1.2	241.7	0	14.69	34.376	6.09	25.578	241.7	0.000
10	14.66	34.371	6.06	0.24	8.2	0.00	1.3	241.5	10	14.66	34.371	6.06	25.581	241.5	0.024
20	14.62	34.372	6.07	0.26	8.6	0.00	1.5	240.6	20	14.62	34.372	6.07	25.590	240.6	0.048
31	14.15	34.378	6.13	0.27	8.4	0.03	1.7	230.6	30	14.20	34.378	6.12	25.684	231.7	0.072
50	13.68	34.378	6.20	0.27	8.8	0.08	1.8	221.3	50	13.68	34.378	6.20	25.793	221.3	0.118
60	13.57	34.376	6.20	0.26	8.6	0.09	1.8	219.3	75	13.44	34.378	6.06	25.842	216.6	0.173
74	13.45	34.377	6.07	0.27	8.8	0.18	2.1	216.9	100	13.23	34.394	5.93	25.897	211.4	0.227
89	13.27	34.388	5.99	0.32	9.2	0.39	3.1	212.6	125	13.10	34.396	5.89	25.925	208.6	0.280
99	13.23	34.393	5.93	0.33	9.0	0.55	3.3	211.5	150	12.94	34.385	5.75	25.948	206.5	0.333
125	13.10	34.396	5.89	0.40	9.2	0.44	4.0	208.8	200	12.65	34.371	5.69	25.993	202.2	0.437
150	12.94	34.385	5.75	0.43	9.4	0.11	5.3	206.5	250	12.16	34.336	5.56	26.062	195.8	0.540
198	12.67	34.372	5.69	0.45	10.7	0.00	6.6	202.4	300	11.64	34.357	5.29	26.176	184.9	0.638
248	12.18	34.354	5.57	0.54	11.6	0.00	7.8	196.2	400	9.87	34.215	5.30	26.381	165.4	0.821
297	11.69	34.359	5.29	0.75	15.9	0.00	11.1	185.5	500	8.15	34.099	4.50	26.565	148.0	0.986
397	9.92	34.218	5.32	1.01	22.1	0.00	14.2	166.0	600	6.20	34.005	3.54	26.763	129.2	1.133
496	8.23	34.103	4.53	1.50	35.7	0.00	21.0	148.8	700	4.86	34.018	2.32	26.935	112.9	1.262
596	6.27	34.006	3.59	2.02	56.5	0.00	28.5	129.9	800	4.27	34.121	1.49	27.082	99.0	1.375
744A	4.50		1.80	2.75	94.0	0.06	38.8		1000	3.48	34.305	0.54	27.307	77.6	1.567
792	4.30	34.111	0.550	2.84	102.0	0.01	40.0	100.0	1200	2.95	34.399	0.32	27.432	65.8	1.726
989	3.46	34.289	0.45	3.20	134.8	0.00	44.5	78.5	1500	2.48	34.490	0.51	27.546	55.0	1.931
994A	3.50		0.55	3.15	133.3	0.01	44.0		1750	2.15	34.560	0.89	27.629	47.1	2.079
1187	2.97	34.394	0.31	3.20	153.4	0.01	45.6	66.3	2000	1.93	34.602	1.40	27.679	42.4	2.212
1244A	2.87	34.409	0.35	3.22	156.1	0.00	45.2	64.3	2250	1.78	34.641	1.97	27.723	38.2	2.334
1495A	2.49	34.488	0.50	3.19	169.5	0.00	45.3	55.2	2500	1.67	34.647	2.36	27.736	37.0	2.450
1743A	2.16	34.558	0.88	3.10	177.3	0.00	44.3	47.3	2750	1.61	34.656	2.60	27.747	35.9	2.564
1993A	1.94	34.599	1.38	3.00	181.8	0.00	42.9	42.5	3000	1.56	34.661	2.94	27.755	35.2	2.677
2243A	1.76	34.640	1.96	2.92	180.9	0.00	41.5	38.3	3250	1.52	34.669	3.04	27.764	34.3	2.789
2493A	1.67	34.646	2.35	2.80	176.2	0.00	40.0	37.0	3500	1.49	34.674	3.16	27.771	33.7	2.900
2743A	1.61	34.655	2.59	2.76	175.5	0.00	39.3	35.9	3750	1.49	34.679	3.30	27.774	33.3	3.012
2992A	1.56	34.660	2.93	2.69	172.6	0.00	38.7	35.2	4000	1.48	34.682	3.41	27.778	33.0	3.125
3241A	1.52	34.668	3.04	2.69	171.2	0.00	38.3	34.3	4250	1.49	34.683	3.50	27.778	33.0	3.238
3490A	1.49	34.673	3.15	2.66	169.3	0.00	38.0	33.7	4500	1.50	34.685	3.57	27.779	32.9	3.354
3739A	1.49	34.678	3.29	2.56	167.6	0.00	36.6	33.3	4750	1.52	34.651	3.58	27.782	32.5	3.471
3987A	1.48	34.681	3.40	2.56	166.2		36.0	33.0	5000	1.54	34.696	3.59	27.785	32.3	3.590
4482A	1.50	34.684	3.57	2.55	164.7		36.3	32.9	5250	1.57	34.693	3.65	27.780	32.7	3.711
4977A	1.54	34.696	3.59	2.54	160.4		36.1	32.3	5500	1.60	34.691	3.70	27.776	33.2	3.835
5467A	1.596	34.690	3.69	2.53	157.8		35.5	33.2	5750	1.64	34.693	3.75	27.775	33.3	3.963
5857A	1.651	34.693	3.77	2.51	157.7		35.8	33.3	6000	1.67	34.693	3.76	27.773	33.5	4.094
5906A	1.655	34.693	3.78	2.49	154.4		35.5	33.4							
5955A	1.663	34.693	3.76	2.48	154.7		34.5	33.4							

RV THOMAS WASHINGTON

INDOPAC LEG I

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LATITUDE		LONGITUDE		MO/DAY/YR		MESSENGER		TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES		
35 01.6N		172 59.9W		4/11/76		133A		GMT	5956M	200	24KT	1			
Z	T	S	02	P04	S103	N02	N03	DT	Z	T	S	02	SIGT	DT	DD
0	15.10	34.438	5.98					245.7	0	15.10	34.438	5.98	25.536	245.7	0.000
9	15.07	34.435	5.99					245.3	10	15.07	34.436	5.99	25.541	245.2	0.025
19	15.04	34.439	5.98					244.4	20	15.04	34.440	5.98	25.551	244.3	0.049
31	15.01	34.441	5.99					243.6	30	15.01	34.442	5.99	25.558	243.7	0.074
50	14.29	34.438	6.02					229.1	50	14.29	34.438	6.02	25.711	229.1	0.121
76	13.76	34.445	5.64					218.0	75	13.77	34.445	5.66	25.825	218.3	0.177
101	13.52	34.442	5.58					213.5	100	13.53	34.443	5.58	25.874	213.6	0.232
126	13.32	34.454	5.27					208.7	125	13.33	34.454	5.28	25.923	208.9	0.286
152	13.04	34.448	5.20					203.8	150	13.06	34.450	5.21	25.973	204.2	0.338
202	12.36	34.387	5.48					195.6	200	12.39	34.390	5.47	26.060	195.9	0.440
252	11.68	34.353	5.25					185.8	250	11.71	34.355	5.26	26.163	186.2	0.539
302	10.87	34.298	5.19					175.7	300	10.90	34.301	5.19	26.268	176.1	0.632
402	9.17	34.167	4.97					158.0	400	9.20	34.171	4.98	26.457	158.3	0.807
500	7.57	34.064	4.33					142.4	500	7.57	34.064	4.33	26.624	142.4	0.965
602	5.68	34.002	3.14					123.2	600	5.71	34.003	3.17	26.823	123.6	1.106
700	4.62	34.063	1.96					106.9	700	4.62	34.063	1.96	26.998	106.9	1.228
799	4.10	34.146	1.32					95.4	800	4.10	34.148	1.31	27.121	95.3	1.337
897	3.78	34.213	0.91					87.2	1000	3.52	34.273	0.62	27.278	80.3	1.527
994	3.54	34.269	0.63					80.8	1200	3.01	34.388	0.36	27.418	67.1	1.690
1190	3.03	34.383	0.37					67.6							

510						INDOPAC LEG 1						52									
LATITUDE		LONGITUDE		MO/DAY/YR		START TIME		LATITUDE		LONGITUDE		MO/DAY/YR		START TIME							
34 56.6N		172 02. W		04/11/76		0110 GMT		35 01.6N		172 59.9W		04/11/76		1249 GMT							
Z	T	S	SIGMA T	DT	DD							Z	T	S	SIGMA T	DT	DD				
0	14.66	34.37	25.580	241.6	0.000							0	15.11	34.44	25.536	245.7	0.000				
10	14.40	34.36	25.628	237.0	0.024							10	15.09	34.43	25.532	246.1	0.025				
20	13.95	34.37	25.730	227.2	0.047							20	15.06	34.45	25.554	244.0	0.049				
30	13.70	34.37	25.782	222.3	0.070							30	14.73	34.45	25.626	237.1	0.073				
40	13.57	34.37	25.609	219.6	0.092							40	14.38	34.45	25.701	230.0	0.097				
50	13.51	34.37	25.821	218.6	0.114							50	14.16	34.45	25.748	225.6	0.120				
75	13.17	34.37	25.890	212.0	0.168							75	13.74	34.46	25.843	216.5	0.175				
100	13.04	34.37	25.917	209.5	0.221							100	13.51	34.47	25.899	211.3	0.229				
125	12.91	34.37	25.943	207.1	0.274							125	13.25	34.46	25.944	207.0	0.282				
150	12.86	34.37	25.953	206.1	0.327							150	12.88	34.44	26.005	201.4	0.334				
175	12.59	34.35	25.990	202.5	0.379							175	12.54	34.41	26.047	197.2	0.385				
200	12.39	34.34	26.022	199.6	0.430							200	12.25	34.39	26.087	193.3	0.435				
225	12.18	34.33	26.054	196.5	0.481							225	11.88	34.36	26.150	187.3	0.484				
250	12.05	34.35	26.099	192.3	0.531							250	11.52	34.35	26.194	183.2	0.532				
275	11.70	34.34	26.153	187.1	0.580							275	11.23	34.33	26.232	179.6	0.579				
300	11.27	34.32	26.217	181.0	0.628							300	10.88	34.30	26.272	175.8	0.625				
350	10.58	34.24	26.314	171.6	0.720							350	10.18	34.25	26.356	167.8	0.714				
400	9.48	34.17	26.412	162.5	0.807							400	9.18	34.17	26.461	157.9	0.799				
450	8.50	34.10	26.513	152.9	0.890							450	8.30	34.10	26.544	150.0	0.880				
500	7.82	34.07	26.592	145.4	0.969							500	7.49	34.06	26.632	141.6	0.957				
550	6.99	34.02	26.671	138.0	1.044							550	6.66	34.02	26.715	133.7	1.030				
600	6.27	33.99	26.743	131.1	1.115							600	5.76	34.00	26.815	124.3	1.098				
650	5.49	33.98	26.832	122.6	1.183							650	5.10	34.02	26.910	115.3	1.162				
700	5.04	34.01	26.909	115.4	1.246							700	4.66	34.06	26.991	107.6	1.221				
750	4.57	34.05	26.993	107.4	1.305							750	4.36	34.10	27.056	101.5	1.277				
800	4.28	34.10	27.064	100.6	1.361							800	4.10	34.15	27.123	95.1	1.330				
850	4.08	34.14	27.117	95.6	1.414							850	3.91	34.18	27.166	91.0	1.380				
900	3.87	34.18	27.170	90.6	1.464							900	3.75	34.22	27.214	86.4	1.428				
950	3.70	34.21	27.211	86.7	1.512							950	3.61	34.25	27.252	82.9	1.474				
1000	3.53	34.26	27.268	81.4	1.558							1000	3.50	34.28	27.286	79.6	1.518				
1100	3.22	34.33	27.353	73.3	1.643							1100	3.23	34.34	27.360	72.6	1.602				
1200	2.97	34.38	27.416	67.3	1.721							1200	3.00	34.38	27.413	67.6	1.680				
1300	2.74	34.43	27.476	61.6	1.794																
1400	2.55	34.47	27.524	57.0	1.861																
1500	2.40	34.50	27.561	53.5	1.924																
1600	2.251	34.529	27.596	50.2	1.984																
1700	2.130	34.557	27.629	47.1	2.040																
1800	2.051	34.576	27.650	45.1	2.094																
1900	1.995	34.588	27.664	43.8	2.147																
2000	1.911	34.603	27.683	42.0	2.198																
2100	1.855	34.615	27.697	40.7	2.248																
2200	1.796	34.624	27.708	39.6	2.297																
2300	1.736	34.632	27.719	38.6	2.344																
2400	1.693	34.641	27.730	37.6	2.391																
2500	1.658	34.644	27.735	37.1	2.437																
2600	1.635	34.650	27.741	36.5	2.483																
2700	1.608	34.654	27.747	36.0	2.528																
2800	1.582	34.657	27.751	35.6	2.574																
2900	1.565	34.659	27.754	35.3	2.619																
3000	1.550	34.660	27.756	35.1	2.663																
3100	1.535	34.665	27.761	34.6	2.708																
3200	1.524	34.671	27.766	34.1	2.753																
3300	1.515	34.671	27.767	34.0	2.797																
3400	1.509	34.672	27.768	33.9	2.842																
3500	1.503	34.673	27.769	33.8	2.886																
3600	1.495	34.675	27.772	33.6	2.931																
3700	1.491	34.676	27.773	33.5	2.976																
3800	1.487	34.679	27.775	33.2	3.021																
3900	1.482	34.680	27.777	33.1	3.066																
4000	1.486	34.679	27.775	33.2	3.111																
4100	1.486	34.681	27.777	33.1	3.157																
4200	1.491	34.682	27.778	33.0	3.202																
4300	1.496	34.683	27.778	33.0	3.248																
4400	1.501	34.684	27.778	33.0	3.294																
4500	1.511	34.686	27.779	32.9	3.341																
4600	1.517	34.689	27.781	32.7	3.388																
4700	1.524	34.689	27.781	32.7</																	

RV THOMAS WASHINGTON

INDOPAC LEG I

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	LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES					
	35 00.6N	174 02. W	4/11/76	2110 0033	GMT	5545M	200	24KT	2						
Z	T	S	O2	P04	S103	N02	N03	DT	Z	T	S	O2	SIGT	DT	DD
3	15.02	34.438	5.97	0.17	4.0	1.1	244.0	0	15.02	34.438	5.97	25.554	244.0	0.000	
12	15.01	34.434	5.99	0.21	4.0	1.1	244.1	10	15.01	34.436	5.99	25.553	244.1	0.024	
21	14.99	34.437	5.97	0.17	4.1	1.1	243.5	20	14.99	34.437	5.97	25.559	243.6	0.049	
30	14.97	34.437	5.99	0.11	4.7	1.1	243.1	30	14.97	34.437	5.99	25.564	243.1	0.073	
47	14.29	34.446	5.93	0.16	4.7	2.1	228.5	50	14.20	34.446	5.92	25.736	226.7	0.120	
56	14.02	34.442	5.90	0.14	4.6	2.7	223.4	75	13.46	34.434	5.79	25.881	212.9	0.176	
69	13.57	34.436	5.78	0.32	6.2	4.4	214.9	100	13.13	34.422	5.74	25.939	207.5	0.229	
82	13.36	34.429	5.81	0.32	8.5	4.6	211.3	125	12.95	34.426	5.69	25.978	203.7	0.261	
91	13.21	34.418	5.83	0.32	6.6	5.0	209.3	150	12.71	34.402	5.74	26.007	200.9	0.333	
112	13.05	34.429	5.62	0.49	7.7	6.5	205.4	200	12.01	34.381	5.53	26.069	195.1	0.434	
134	12.87	34.419	5.76	0.49	8.4	6.3	202.7	250	11.76	34.356	5.33	26.154	187.0	0.532	
177	12.44	34.376	5.71	0.53	9.1	7.6	197.9	300	11.02	34.305	5.24	26.250	177.9	0.627	
220	12.17	34.383	5.37	0.72	12.9	6.1	192.4	400	9.41	34.189	5.07	26.436	160.2	0.803	
262	11.57	34.341	5.31	0.82	14.5	7.9	184.7	500	7.45	34.054	4.43	26.632	141.6	0.962	
347	10.31	34.255	5.16	1.06	20.1	12.2	169.6	600	5.87	34.012	3.32	26.811	124.7	1.103	
431	8.85	34.146	5.02	1.33	27.3	15.0	154.7	700	4.82	34.048	2.26	26.963	110.3	1.228	
518	7.09	34.034	4.24	1.83	44.4	23.3	138.2	800	4.18	34.123	1.55	27.092	98.0	1.339	
595	4.88	34.043	2.31	2.66	83.2	32.9	111.2	1000	3.45	34.307	0.65	27.312	77.2	1.529	
878	3.67	34.201	1.10	2.98	115.8	38.4	89.0	1200	2.95	34.308	0.36	27.439	65.1	1.687	
934A	3.68	34.267	0.75	3.14	125.7	41.4	82.2	1500	2.41	34.510	0.47	27.567	53.0	1.888	
1076	3.21	34.334	0.53	3.16	139.8	42.3	72.9	1750	2.15	34.565	0.87	27.633	46.7	2.032	
1183A	2.99	34.399	0.36	3.25	152.3	43.8	66.1	2000	1.96	34.601	1.39	27.676	42.5	2.165	
1432A	2.51	34.490	0.40	3.29	168.2	45.2	59.2	2250	1.82	34.626	1.89	27.708	39.6	2.289	
1681A	2.21	34.551	0.73	3.12	177.5	44.1	48.2	2500	1.70	34.642	2.31	27.729	37.6	2.408	
1930A	2.01	34.593	1.26	3.10	181.3	42.7	43.5	2750	1.63	34.652	2.50	27.743	36.3	2.524	
2178A	1.86	34.620	1.73	2.99	181.8	41.5	40.4	3000	1.57	34.664	2.79	27.757	34.9	2.638	
2426A	1.73	34.639	2.24	2.90	180.1	39.6	38.0	3250	1.53	34.674	3.02	27.768	33.9	2.749	
2675A	1.65	34.648	2.43	2.80	177.8	39.8	36.7	3500	1.50	34.678	3.12	27.773	33.4	2.860	
2923A	1.58	34.660	2.69	2.79	175.0	38.4	35.3	3750	1.48	34.682	3.27	27.778	32.9	2.971	
3172A	1.54	34.672	2.98	2.70	172.9	38.4	34.1	4000	1.48	34.685	3.40	27.781	32.7	3.083	
3421A	1.50	34.676	3.07	2.69	170.4	37.9	33.6	4250	1.49	34.687	3.48	27.781	32.7	3.196	
3915A	1.47	34.684	3.37	2.59	167.6	37.1	32.7	4500	1.51	34.688	3.51	27.780	32.8	3.311	
4408A	1.503	34.687	3.51	2.58	167.1	36.7	32.7	4750	1.54	34.690	3.52	27.780	32.8	3.428	
4901A	1.551	34.690	3.52	2.58	165.0	36.7	32.9	5000	1.56	34.691	3.54	27.779	32.9	3.548	
5292A	1.593	34.691	3.58	2.56	162.0	36.6	33.1	5250	1.59	34.692	3.57	27.778	33.1	3.671	
5390A	1.595	34.692	3.68	2.56	160.0	36.2	33.0								

RV THOMAS WASHINGTON

INDOPAC LEG I

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	LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES					
	34 59.3N	175 00.8W	4/12/76	0646	GMT	5531M	280	15KT							
Z	T	S	O2	P04	S103	N02	N03	DT	Z	T	S	O2	SIGT	DT	DD
0	15.22	34.482	5.98					245.0	0	15.22	34.482	5.98	25.544	245.0	0.000
10	15.17	34.479	5.99					244.2	10	15.17	34.479	5.99	25.552	244.2	0.024
20	15.18	34.479	5.92					244.4	20	15.18	34.479	5.92	25.550	244.4	0.049
31	15.17	34.486	6.01					243.7	30	15.17	34.486	6.00	25.557	243.7	0.073
50	13.84	34.406	6.07					222.4	50	13.84	34.406	6.07	25.781	222.4	0.120
76	13.65	34.387	6.06					220.1	75	13.66	34.388	6.06	25.805	220.2	0.176
100	13.54	34.411	5.98					216.2	100	13.54	34.411	5.98	25.847	216.2	0.231
126	13.16	34.435	5.79					207.1	125	13.18	34.435	5.80	25.939	207.4	0.285
151	12.97	34.427	5.86					204.0	150	12.98	34.428	5.86	25.974	204.1	0.337
201	12.40	34.388	5.70					196.2	200	12.41	34.389	5.71	26.055	196.4	0.440
251	11.84	34.366	5.49					187.7	250	11.85	34.367	5.49	26.145	187.8	0.538
301	11.06	34.311	5.30					178.0	300	11.08	34.313	5.30	26.247	178.2	0.633
401	9.25	34.177	5.32					158.4	400	9.27	34.179	5.32	26.453	158.6	0.809
502	7.49	34.064	4.35					141.3	500	7.52	34.067	4.37	26.632	141.7	0.967
602	5.74	34.008	3.33					123.4	600	5.77	34.009	3.35	26.820	123.8	1.108
701	4.63	34.067	2.22					106.7	700	4.64	34.067	2.23	26.999	106.9	1.230
800	4.14	34.147	1.54					95.7	800	4.14	34.147	1.54	27.116	95.7	1.338
899	3.73	34.232	0.86					85.3	1000	3.41	34.312	0.59	27.321	76.7	1.525
998	3.41	34.306	0.59					76.8	1200	2.95	34.408	0.43	27.440	65.0	1.682
1196	2.96	34.406	0.43					65.3							

530						INDOPAC LEG 1						54					
LATITUDE	LCNGITUDE	MO/DAY/YR	START TIME			LATITUDE	LCNGITUDE	MO/DAY/YR	START TIME			LATITUDE	LCNGITUDE	MO/DAY/YR	START TIME		
35 00.6N	174 02.0W	04/11/76	1958 GMT			34 59.3N	175 00.8W	04/12/76	0557 GMT			34 59.3N	175 00.8W	04/12/76	0557 GMT		
Z	T	S	SIGMA T	DT	DD	Z	T	S	SIGMA T	DT	DD	Z	T	S	SIGMA T	DT	DD
0	14.97	34.43	25.559	243.6	0.000	0	15.18	34.49	25.559	243.6	0.000	0	15.18	34.49	25.559	243.6	0.000
10	14.96	34.44	25.569	242.6	0.024	10	15.18	34.50	25.566	242.8	0.024	10	15.18	34.50	25.566	242.8	0.024
20	14.96	34.44	25.569	242.6	0.049	20	15.18	34.50	25.566	242.8	0.049	20	15.18	34.50	25.566	242.8	0.049
30	14.93	34.44	25.575	242.0	0.073	30	15.18	34.50	25.573	242.2	0.073	30	15.18	34.50	25.573	242.2	0.073
40	14.85	34.44	25.592	240.3	0.097	40	15.00	34.49	25.598	239.6	0.097	40	15.00	34.49	25.598	239.6	0.097
50	14.60	34.44	25.647	235.2	0.121	50	14.31	34.43	25.701	230.1	0.121	50	14.31	34.43	25.701	230.1	0.121
75	13.91	34.44	25.793	221.3	0.179	75	13.66	34.40	25.814	219.3	0.179	75	13.66	34.40	25.814	219.3	0.179
100	13.52	34.43	25.866	214.4	0.234	100	13.56	34.40	25.834	217.4	0.233	100	13.56	34.40	25.834	217.4	0.233
125	13.10	34.42	25.943	207.0	0.287	125	13.26	34.45	25.934	207.9	0.287	125	13.26	34.45	25.934	207.9	0.287
150	12.89	34.41	25.977	203.8	0.339	150	13.01	34.44	25.977	203.8	0.339	150	13.01	34.44	25.977	203.8	0.339
175	12.68	34.40	26.011	200.5	0.391	175	12.74	34.42	26.015	200.2	0.390	175	12.74	34.42	26.015	200.2	0.390
200	12.50	34.39	26.039	197.9	0.442	200	12.50	34.40	26.047	197.2	0.441	200	12.50	34.40	26.047	197.2	0.441
225	12.21	34.37	26.080	194.1	0.492	225	12.24	34.40	26.097	192.4	0.491	225	12.24	34.40	26.097	192.4	0.491
250	11.95	34.36	26.122	190.1	0.542	250	11.94	34.38	26.139	188.4	0.540	250	11.94	34.38	26.139	188.4	0.540
275	11.47	34.33	26.186	183.7	0.590	275	11.57	34.36	26.193	183.3	0.588	275	11.57	34.36	26.193	183.3	0.588
300	11.03	34.30	26.245	178.3	0.637	300	11.06	34.32	26.252	177.7	0.635	300	11.06	34.32	26.252	177.7	0.635
350	10.14	34.24	26.355	167.9	0.727	350	10.12	34.25	26.367	166.8	0.725	350	10.12	34.25	26.367	166.8	0.725
400	9.14	34.16	26.459	156.0	0.812	400	9.29	34.18	26.451	158.8	0.810	400	9.29	34.18	26.451	158.8	0.810
450	8.31	34.10	26.542	150.1	0.893	450	8.48	34.12	26.532	151.1	0.892	450	8.48	34.12	26.532	151.1	0.892
500	7.18	34.03	26.652	139.7	0.970	500	7.59	34.07	26.625	142.5	0.969	500	7.59	34.07	26.625	142.5	0.969
550	6.39	34.01	26.743	131.1	1.041	550	6.43	34.02	26.746	130.8	1.041	550	6.43	34.02	26.746	130.8	1.041
600	5.59	34.00	26.836	122.3	1.108	600	5.74	34.01	26.825	123.3	1.109	600	5.74	34.01	26.825	123.3	1.109
650	4.99	34.02	26.923	114.1	1.171	650	5.06	34.02	26.915	114.8	1.172	650	5.06	34.02	26.915	114.8	1.172
700	4.69	34.04	26.972	109.4	1.230	700	4.63	34.07	27.003	106.5	1.231	700	4.63	34.07	27.003	106.5	1.231
750	4.32	34.10	27.060	101.1	1.286	750	4.43	34.10	27.048	102.2	1.286	750	4.43	34.10	27.048	102.2	1.286
800	4.08	34.14	27.117	95.6	1.339	800	4.18	34.14	27.107	96.6	1.340	800	4.18	34.14	27.107	96.6	1.340
850	3.84	34.18	27.169	90.7	1.389	850	3.96	34.18	27.161	91.5	1.390	850	3.96	34.18	27.161	91.5	1.390
900	3.73	34.22	27.216	86.2	1.437	900	3.78	34.22	27.211	86.7	1.439	900	3.78	34.22	27.211	86.7	1.439
950	3.57	34.25	27.256	82.5	1.483	950	3.60	34.26	27.261	82.0	1.484	950	3.60	34.26	27.261	82.0	1.484
1000	3.43	34.29	27.301	78.2	1.527	1000	3.43	34.30	27.309	77.4	1.528	1000	3.43	34.30	27.309	77.4	1.528
1100	3.18	34.34	27.365	72.2	1.610	1100	3.18	34.36	27.380	70.7	1.610	1100	3.18	34.36	27.380	70.7	1.610
1200	2.95	34.40	27.433	65.0	1.686	1200	2.98	34.40	27.431	65.9	1.686	1200	2.98	34.40	27.431	65.9	1.686
1300	2.75	34.44	27.483	60.9	1.757												
1400	2.56	34.47	27.524	57.1	1.824												
1500	2.44	34.49	27.550	54.6	1.888												
1600	2.318	34.525	27.588	51.0	1.949												
1700	2.198	34.546	27.614	48.5	2.007												
1800	2.116	34.566	27.637	46.3	2.063												
1900	2.036	34.584	27.658	44.4	2.116												
2000	1.934	34.602	27.680	42.3	2.168												
2100	1.868	34.615	27.696	40.8	2.218												
2200	1.812	34.624	27.707	39.7	2.267												
2300	1.759	34.632	27.718	38.7	2.315												
2400	1.720	34.640	27.727	37.8	2.362												
2500	1.686	34.645	27.734	37.2	2.408												
2600	1.648	34.652	27.742	36.4	2.454												
2700	1.622	34.657	27.748	35.8	2.500												
2800	1.591	34.660	27.753	35.4	2.545												
2900	1.575	34.663	27.756	35.1	2.590												
3000	1.556	34.666	27.760	34.7	2.634												
3100	1.542	34.669	27.763	34.4	2.679												
3200	1.529	34.672	27.767	34.1	2.723												
3300	1.513	34.674	27.769	33.8	2.768												
3400	1.501	34.676	27.771	33.6	2.812												
3500	1.492	34.678	27.774	33.4	2.856												
3600	1.486	34.680	27.776	33.2	2.901												
3700	1.481	34.682	27.778	33.0	2.945												
3800	1.479	34.682	27.778	33.0	2.989												
3900	1.477	34.684	27.780	32.8	3.034												
4000	1.479	34.685	27.781	32.7	3.079												
4100	1.480	34.687	27.782	32.6	3.124												
4200	1.486	34.687	27.782	32.6	3.169												
4300	1.492	34.688	27.782	32.6	3.214												
4400	1.502	34.688	27.782	32.7	3.260												
4500	1.507	34.689	27.782	32.6	3.306												
4600	1.516	34.689	27.781	32.7	3.353												
4700	1.524	34.690	27.782	32.7	3.400												
4800	1.537	34.689	27.780	32.6	3.447												
4900	1.546	34.689	27.779	32.9	3.495												
5000	1.558	34.690	27.779	32.9	3.543												
5100	1.570	34.690	27.778	33.0	3.592												
5200	1.580	34.691	27.778	33.0	3.641												
5300	1.591	34.692	27.778	33.0	3.691												
5400	1.600	34.691	27.777	33.1	3.741												
5432	1.604	34.693	27.778	33.0	3.757												

RV THOMAS WASHINGTON

INDOPAC LEG 1

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LATITUDE		LONGITUDE		MO/DAY/YR		MESSENGER TIME		BOTTOM		WIND		SPEED		WEATHER		DOMINANT WAVES	
34 58.4N		175 59.8W		4/12/76		1325 1521 GMT		2050M		320		16KT		1			
Z	T	S	O2	P04	SI03	N02	N03	DT	Z	T	S	O2	SIGT	DT	DD		
1	15.39	34.485	5.85	0.14	7.0	0.11		248.3	0	15.39	34.485	5.85	25.508	248.3	0.000		
11	15.40	34.485	5.87	0.12	7.0	0.11		248.6	10	15.40	34.486	5.87	25.506	248.5	0.025		
21	15.38	34.484	5.87	0.14	7.1	0.11		248.2	20	15.38	34.485	5.87	25.509	248.3	0.050		
31	15.38	34.483	5.84	0.14	7.1	0.12		248.3	30	15.38	34.484	5.84	25.509	248.3	0.075		
50	14.60	34.494	5.85	0.18	7.2	0.14		231.3	50	14.60	34.494	5.83	25.688	231.3	0.123		
60	14.48	34.497	5.72	0.22	7.2	0.33		228.6	75	14.19	34.486	5.53	25.769	223.5	0.180		
75	14.19	34.486	5.55	0.29	7.5	0.09		223.5	100	13.61	34.462	5.52	25.829	217.9	0.236		
89	14.00	34.473	5.53	0.34	8.1	0.04		220.7	125	13.54	34.464	5.34	25.890	212.1	0.290		
98	13.84	34.461	5.53	0.38	8.5	0.02		218.4	150	13.29	34.452	5.37	25.929	208.3	0.344		
123	13.56	34.468	5.34	0.45	9.5	0.02		212.4	200	12.44	34.408	5.21	26.065	195.4	0.447		
148	13.32	34.453	5.37	0.50	10.3	0.00		208.8	250	11.77	34.360	5.17	26.155	186.9	0.545		
196	12.49	34.411	5.22	0.64	13.3	0.00		196.2	300	10.98	34.300	5.24	26.254	177.5	0.640		
244	11.86	34.366	5.16	0.77	15.8			188.0	400	9.47	34.187	4.99	26.426	161.2	0.816		
293	11.07	34.306	5.25	0.83	17.5			178.6	500	7.95	34.057	4.15	26.649	140.0	0.975		
391	9.66	34.200	5.04	1.11	24.4			163.1	600	5.78	34.013	3.11	26.822	123.6	1.114		
486	7.61	34.070	4.29	1.61	41.2	0.00		142.5	700	4.76	34.060	2.17	26.979	108.8	1.238		
584	5.98	34.009	3.28	2.14	61.3	0.00		126.2	800	4.10	34.140	1.47	27.114	95.6	1.347		
779	4.24	34.124	1.55	2.79	102.0	0.00		98.4	1000	3.44	34.288	0.84	27.298	77.3	1.535		
974	3.50	34.279	0.83	3.03	129.8	0.01		79.7	1200	2.95	34.394	0.61	27.428	66.1	1.694		
976A	3.50	34.280	0.87	3.08	131.2	0.04		79.6	1500	2.43	34.509	0.83	27.565	53.1	1.896		
1174	2.97	34.395	0.59	3.09	150.1	0.01		66.2	1750	2.18	34.558	1.20	27.625	47.5	2.042		
1179A	2.97	34.393	0.61	3.16	151.1	0.06		66.4	2000	2.03	34.585	1.50	27.658	44.3	2.179		
1364A	2.62	34.472	0.65	3.17	163.0	0.06		57.4	2250	1.84	34.619	1.97	27.700	40.8	2.307		
1585A	2.31	34.530	0.98	3.14	170.0	0.02		50.6									
1784A	2.16	34.561	1.24	3.07	173.6	0.00		47.1									
1951A	2.04	34.581	1.48	2.99	174.1	0.00		44.6									
2175A	1.89	34.607	1.78	2.91	176.5	0.00		41.6									
2223A	1.86	34.611	1.92	2.88	176.4	0.03		41.0									
2270A	1.83	34.614	1.99	2.87	175.6	0.06		40.6									

RV THOMAS WASHINGTON

INDOPAC LEG 1

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LATITUDE		LONGITUDE		MO/DAY/YR		MESSENGER TIME		BOTTOM		WIND		SPEED		WEATHER		DOMINANT WAVES	
35 00.4N		176 58.1W		4/12/76		2148 GMT		3154M		330		21KT		1		49	
Z	T	S	O2	P04	SI03	N02	N03	DT	Z	T	S	O2	SIGT	DT	DD		
3	16.09	34.588	5.74					255.8	0	16.09	34.588	5.74	25.429	255.8	0.000		
12	16.08	34.590	5.74					255.5	10	16.08	34.591	5.74	25.433	255.5	0.026		
22	16.09	34.590	5.76					255.7	20	16.09	34.591	5.76	25.431	255.6	0.051		
32	16.09	34.591	5.77					255.6	30	16.09	34.592	5.77	25.431	255.6	0.077		
51	16.08	34.591	5.77					255.4	50	16.08	34.592	5.77	25.434	255.4	0.128		
75	15.45	34.585	5.58					242.3	75	15.45	34.585	5.58	25.572	242.3	0.191		
98	14.97	34.560	5.45					234.1	100	14.94	34.560	5.45	25.664	233.6	0.251		
122	14.64	34.544	5.42					228.4	125	14.58	34.539	5.45	25.727	227.5	0.309		
146	14.15	34.498	5.66					221.8	150	14.11	34.495	5.65	25.792	221.4	0.367		
194	13.91	34.485	5.59					218.0	200	13.68	34.488	5.54	25.836	217.2	0.479		
240	13.52	34.491	5.21					209.9	250	13.36	34.483	5.20	25.940	207.4	0.588		
287	12.67	34.439	5.16					197.5	300	12.47	34.427	5.15	26.073	194.7	0.692		
382	11.18	34.333	5.06					178.5	400	10.84	34.306	5.03	26.284	174.6	0.885		
476	9.24	34.182	4.91					157.9	500	8.65	34.139	4.73	26.520	152.2	1.057		
569	7.02	34.044	4.05					136.6	600	6.44	34.025	3.69	26.747	130.7	1.208		
663	5.50	34.016	2.95					120.1	700	5.10	34.035	2.57	26.920	114.3	1.338		
756	4.65	34.075	2.06					106.3	800	4.39	34.116	1.70	27.065	100.6	1.453		
851	4.14	34.163	1.32					94.5	1000	3.52	34.292	0.67	27.294	78.9	1.648		
946	3.72	34.250	0.75					83.9									
1139	3.13	34.373	0.48					69.2									

5500						INDOPAC LEG 1						56					
LATITUDE		LONGITUDE		MO/DAY/YR		START TIME		LATITUDE		LONGITUDE		MO/DAY/YR		START TIME			
34 58.4N		175 59.8W		04/12/76		1336 GMT		35 00.4N		175 58.1W		04/12/76		2105 GMT			
Z	T	S	SIGMA T	DT	DD	Z	T	S	SIGMA T	DT	DD	Z	T	S	SIGMA T	DT	DD
0	15.39	34.47	25.497	249.4	0.000	0	16.08	34.60	25.441	254.8	0.000	0	16.08	34.60	25.441	254.8	0.000
10	15.40	34.47	25.495	249.7	0.025	10	16.08	34.60	25.441	254.8	0.025	10	16.08	34.60	25.441	254.8	0.025
20	15.40	34.48	25.502	248.9	0.050	20	16.08	34.60	25.441	254.8	0.051	20	16.08	34.60	25.441	254.8	0.051
30	15.38	34.48	25.507	248.5	0.075	30	16.08	34.60	25.441	254.8	0.077	30	16.08	34.60	25.441	254.8	0.077
40	15.18	34.48	25.551	244.3	0.100	40	16.08	34.60	25.441	254.8	0.102	40	16.08	34.60	25.441	254.8	0.102
50	14.61	34.49	25.683	231.8	0.124	50	16.08	34.60	25.441	254.8	0.128	50	16.08	34.60	25.441	254.8	0.128
75	14.09	34.47	25.778	222.7	0.181	75	15.71	34.60	25.525	246.8	0.191	75	15.71	34.60	25.525	246.8	0.191
100	13.78	34.46	25.735	217.3	0.236	100	15.03	34.57	25.653	234.6	0.252	100	15.03	34.57	25.653	234.6	0.252
125	13.49	34.45	25.887	212.3	0.291	125	14.64	34.55	25.723	228.0	0.310	125	14.64	34.55	25.723	228.0	0.310
150	13.13	34.43	25.945	206.9	0.344	150	14.33	34.52	25.766	223.9	0.368	150	14.33	34.52	25.766	223.9	0.368
175	12.72	34.42	26.019	199.6	0.396	175	13.97	34.49	25.819	218.8	0.424	175	13.97	34.49	25.819	218.8	0.424
200	12.36	34.40	26.074	194.6	0.447	200	13.87	34.50	25.847	216.1	0.480	200	13.87	34.50	25.847	216.1	0.480
225	12.04	34.39	26.128	189.5	0.496	225	13.63	34.50	25.897	211.4	0.535	225	13.63	34.50	25.897	211.4	0.535
250	11.58	34.34	26.176	184.9	0.544	250	13.37	34.49	25.943	207.1	0.589	250	13.37	34.49	25.943	207.1	0.589
275	11.18	34.30	26.218	180.9	0.591	275	12.77	34.44	26.024	199.3	0.641	275	12.77	34.44	26.024	199.3	0.641
300	10.83	34.27	26.258	177.1	0.638	300	12.39	34.43	26.091	195.0	0.692	300	12.39	34.43	26.091	195.0	0.692
350	10.24	34.24	26.338	169.5	0.728	350	11.58	34.36	26.191	183.5	0.790	350	11.58	34.36	26.191	183.5	0.790
400	9.35	34.16	26.425	161.3	0.815	400	10.90	34.31	26.277	175.4	0.884	400	10.90	34.31	26.277	175.4	0.884
450	8.32	34.11	26.549	149.5	0.896	450	9.80	34.23	26.405	163.1	0.973	450	9.80	34.23	26.405	163.1	0.973
500	7.35	34.05	26.644	140.5	0.973	500	8.50	34.13	26.537	150.7	1.057	500	8.50	34.13	26.537	150.7	1.057
550	6.26	34.01	26.760	129.5	1.044	550	7.45	34.05	26.630	141.6	1.134	550	7.45	34.05	26.630	141.6	1.134
600	5.68	34.00	26.825	123.3	1.111	600	6.36	34.03	26.763	129.2	1.206	600	6.36	34.03	26.763	129.2	1.206
650	5.15	34.01	26.896	116.6	1.175	650	5.55	34.01	26.849	121.1	1.273	650	5.55	34.01	26.849	121.1	1.273
700	4.73	34.04	26.968	109.8	1.235	700	5.03	34.03	26.926	113.8	1.335	700	5.03	34.03	26.926	113.8	1.335
750	4.49	34.07	27.018	105.0	1.292	750	4.64	34.07	27.002	106.6	1.394	750	4.64	34.07	27.002	106.6	1.394
800	4.17	34.12	27.092	98.0	1.346	800	4.28	34.13	27.088	98.4	1.449	800	4.28	34.13	27.088	98.4	1.449
850	3.95	34.17	27.154	92.1	1.398	850	4.07	34.17	27.142	93.3	1.501	850	4.07	34.17	27.142	93.3	1.501
900	3.79	34.20	27.194	86.3	1.446	900	3.86	34.21	27.195	88.2	1.550	900	3.86	34.21	27.195	88.2	1.550
950	3.67	34.23	27.230	84.9	1.493	950	3.67	34.25	27.246	83.4	1.597	950	3.67	34.25	27.246	83.4	1.597
1000	3.47	34.27	27.281	80.1	1.538	1000	3.53	34.29	27.291	79.1	1.641	1000	3.53	34.29	27.291	79.1	1.641
1100	3.18	34.34	27.365	72.2	1.622	1100	3.28	34.35	27.363	72.3	1.725	1100	3.28	34.35	27.363	72.3	1.725
1200	2.94	34.39	27.426	66.3	1.699												
1300	2.74	34.43	27.476	61.6	1.771												
1400	2.58	34.47	27.522	57.3	1.838												
1500	2.42	34.51	27.567	53.0	1.901												
1600	2.312	34.529	27.591	50.7	1.961												
1700	2.217	34.546	27.613	48.6	2.019												
1800	2.140	34.561	27.631	46.9	2.075												
1900	2.084	34.572	27.644	45.7	2.130												
2000	2.019	34.583	27.658	44.3	2.184												
2100	1.932	34.599	27.678	42.5	2.236												
2200	1.868	34.609	27.691	41.2	2.287												
2300	1.820	34.618	27.702	40.2	2.336												

RV THOMAS WASHINGTON

INDOPAC LEG I

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	LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES					
	35 01. N	178 01.2W	4/13/76	0436	0736	GMT	372M	350	10KT						
Z	T	S	O2	P04	S103	N02	N03	DT	Z	T	S	O2	SIGT	DT	DD
1	15.84	34.516	5.76	0.21	6.2	0.6	255.7	0	15.84	34.516	5.76	25.431	255.7	0.000	
11	15.85	34.510	5.58	0.22	6.2	0.6	256.3	10	15.85	34.510	5.60	25.424	256.3	0.026	
22	15.83	34.513	5.81	0.17	6.4	0.6	255.7	20	15.83	34.513	5.76	25.430	255.8	0.051	
32	15.84	34.511	5.92	0.19	6.1	0.6	256.1	30	15.84	34.512	5.91	25.428	256.0	0.077	
51	15.29	34.534	5.63	0.33	6.2	2.8	242.7	50	15.25	34.533	5.65	25.556	243.6	0.127	
61	14.91	34.538	5.22	0.33	6.6	4.2	234.4	75	14.78	34.532	5.14	25.677	232.3	0.187	
76	14.78	34.533	5.13	0.34	6.8	4.4	232.1	100	14.50	34.491	5.77	25.750	225.4	0.245	
90	14.54	34.516	5.63	0.40	7.6	4.2	228.4	125	14.03	34.469	5.86	25.790	221.6	0.302	
100	14.30	34.491	5.77	0.40	7.6	3.7	225.4	150	13.77	34.465	5.63	25.641	216.7	0.357	
126	14.02	34.468	5.86	0.40	7.7	4.3	221.5	200	12.91	34.440	5.26	25.997	201.9	0.464	
150	13.77	34.465	5.63	0.47	8.1	5.2	216.7	250	11.78	34.373	5.09	26.164	186.1	0.564	
200	12.91	34.440	5.26	0.65	11.9	8.9	201.9	300	11.15	34.322	5.10	26.240	178.8	0.659	
249	11.79	34.373	5.09	0.84	16.2	11.8	186.3	400	9.18	34.172	5.03	26.461	157.9	0.834	
299	11.17	34.323	5.10	0.95	18.3	13.0	179.0	500	7.49	34.049	4.54	26.622	142.6	0.992	
399	9.20	34.172	5.03	1.25	27.5	17.1	158.0	600	6.08	34.011	3.46	26.763	127.3	1.135	
498	7.52	34.049	4.56	1.61	40.4	22.1	142.9	700	5.02	34.055	2.36	26.946	111.9	1.263	
598	6.10	34.009	3.48	2.16	59.7	29.3	127.6	800	4.28	34.135	1.48	27.092	98.1	1.375	
797	4.29	34.132	1.49	3.05	102.6	40.2	98.3	1000	3.55	34.282	0.80	27.283	79.9	1.568	
994A	3.54	34.282	0.82	3.10	129.8	43.5	79.6	1200	2.98	34.393	0.54	27.424	66.5	1.730	
995	3.56	34.278	0.81	3.23	129.3	43.4	80.3	1500	2.50	34.495	0.69	27.548	54.8	1.936	
1095A	3.28	34.334	0.63	3.18	140.3	44.1	73.5	1750	2.15	34.554	1.07	27.624	47.6	2.085	
1195	2.99	34.389	0.54	3.28	149.8	44.8	66.8	2000	1.92	34.595	1.63	27.674	42.8	2.218	
1293A	2.85	34.423	0.54	3.27	154.6	44.6	63.1	2250	1.77	34.624	2.07	27.710	39.4	2.342	
1492A	2.51	34.492	0.68	3.17	166.2	44.6	55.0	2500	1.65	34.640	2.45	27.731	37.4	2.460	
1690A	2.22	34.543	0.97	3.14	174.7	43.9	48.9	2750	1.57	34.654	2.75	27.748	35.8	2.574	
1888A	2.02	34.575	1.35	3.05	177.2	42.8	44.9	3000	1.53	34.662	2.94	27.759	34.8	2.686	
2087A	1.85	34.606	1.84	2.98	178.3	41.7	41.3	3250	1.50	34.671	3.24	27.768	34.0	2.797	
2286A	1.75	34.626	2.11	2.92	174.9	40.8	39.1	3500	1.46	34.675	3.35	27.774	33.4	2.907	
2484A	1.66	34.638	2.42	2.89	173.9	39.8	37.6								
2681A	1.59	34.650	2.72	2.78	173.1	39.2	36.2								
2878A	1.55	34.658	2.79	2.75	170.5	38.7	35.3								
3075A	1.514	34.664	3.05	2.68	166.5	36.9	34.6								
3272A	1.496	34.671	3.26	2.65	167.1	36.9	33.9								
3371A	1.461	34.674	3.31	2.67	166.5	36.4	33.6								
3468A	1.468	34.675	3.34	2.65	166.0	36.7	33.4								

RV THOMAS WASHINGTON

INDOPAC LEG I

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	LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES					
	34 59.6N	179 00.6W	4/13/76	1351	GMT	3960M	280	5KT		49					
Z	T	S	O2	P04	S103	N02	N03	DT	Z	T	S	O2	SIGT	DT	DD
0	15.25	34.443	5.92					248.5	0	15.25	34.443	5.92	25.507	248.5	0.000
10	15.24	34.440	5.94					248.5	10	15.24	34.440	5.94	25.507	248.5	0.025
20	15.24	34.442	5.92					248.3	20	15.24	34.442	5.92	25.508	248.3	0.050
31	15.23	34.441	5.94					248.2	30	15.23	34.442	5.94	25.510	248.2	0.075
51	14.44	34.439	5.94					232.0	50	14.49	34.440	5.94	25.670	233.0	0.123
77	13.86	34.430	5.76					221.1	75	13.89	34.431	5.78	25.789	221.7	0.160
101	13.46	34.425	5.57					213.6	100	13.47	34.426	5.58	25.871	213.9	0.235
127	13.14	34.437	5.39					206.5	125	13.16	34.437	5.40	25.943	207.1	0.289
151	12.76	34.432	5.19					199.7	150	12.78	34.433	5.20	26.017	200.0	0.340
203	11.99	34.394	5.10					188.3	200	12.03	34.398	5.11	26.135	188.8	0.440
252	11.37	34.344	5.15					181.0	250	11.40	34.347	5.15	26.215	181.2	0.535
300	10.60	34.281	5.15					172.4	300	10.60	34.281	5.15	26.307	172.4	0.627
401	9.16	34.175	4.97					157.2	400	9.18	34.177	4.97	26.466	157.4	0.799
500	6.88	34.041	3.84					135.0	500	6.88	34.041	3.84	26.702	135.0	0.953
600	5.45	34.026	2.83					118.7	600	5.45	34.026	2.83	26.874	118.7	1.087
698	4.55	34.093	1.94					103.9	700	4.54	34.096	1.92	27.033	103.7	1.205
797	4.04	34.181	1.29					92.2	800	4.03	34.184	1.28	27.157	91.9	1.309
896	3.69	34.247	0.93					83.8	1000	3.43	34.300	0.76	27.309	77.4	1.493
995	3.44	34.297	0.76					77.7	1200	2.92	34.408	0.55	27.442	64.8	1.651
1194	2.93	34.405	0.56					65.1							

57D						INDOPAC LEG I						58					
LATITUDE	LONGITUDE	MO/DAY/YR	START TIME			LATITUDE	LONGITUDE	MO/DAY/YR	START TIME			LATITUDE	LONGITUDE	MO/DAY/YR	START TIME		
35 01, N	178 01.2W	04/13/76	0336 GMT			34 59.6N	179 00.6W	04/13/76	1311 GMT								
Z	T	S	SIGMA T	DT	DD	Z	T	S	SIGMA T	DT	DD	Z	T	S	SIGMA T	DT	DD
0	15.87	34.51	25.420	256.8	0.000	0	15.24	34.45	25.515	247.7	0.000	0	15.24	34.45	25.515	247.7	0.000
10	15.86	34.51	25.422	256.6	0.026	10	15.24	34.45	25.515	247.7	0.024	10	15.24	34.45	25.515	247.7	0.024
20	15.84	34.51	25.426	256.1	0.051	20	15.24	34.45	25.515	247.7	0.050	20	15.24	34.45	25.515	247.7	0.050
30	15.80	34.51	25.436	255.3	0.077	30	15.22	34.45	25.519	247.3	0.074	30	15.22	34.45	25.519	247.3	0.074
40	15.67	34.51	25.465	252.5	0.103	40	15.14	34.45	25.537	245.7	0.099	40	15.14	34.45	25.537	245.7	0.099
50	15.22	34.51	25.565	242.9	0.127	50	14.80	34.45	25.611	238.6	0.124	50	14.80	34.45	25.611	238.6	0.124
75	14.66	34.51	25.687	231.3	0.187	75	13.92	34.44	25.791	221.5	0.181	75	13.92	34.44	25.791	221.5	0.181
100	14.22	34.48	25.758	224.6	0.245	100	13.59	34.43	25.851	215.7	0.237	100	13.59	34.43	25.851	215.7	0.237
125	14.01	34.48	25.803	220.4	0.301	125	13.15	34.45	25.948	206.5	0.290	125	13.15	34.45	25.948	206.5	0.290
150	13.86	34.46	25.818	218.9	0.357	150	12.87	34.44	26.005	201.2	0.342	150	12.87	34.44	26.005	201.2	0.342
175	13.47	34.46	25.899	211.2	0.412	175	12.44	34.42	26.074	194.6	0.393	175	12.44	34.42	26.074	194.6	0.393
200	13.21	34.45	25.944	206.9	0.465	200	12.04	34.40	26.135	188.8	0.442	200	12.04	34.40	26.135	188.8	0.442
225	12.65	34.42	26.033	198.5	0.517	225	11.77	34.38	26.171	185.4	0.490	225	11.77	34.38	26.171	185.4	0.490
250	12.28	34.40	26.089	193.1	0.568	250	11.36	34.35	26.224	180.3	0.537	250	11.36	34.35	26.224	180.3	0.537
275	11.82	34.37	26.154	187.0	0.617	275	10.96	34.32	26.270	176.0	0.583	275	10.96	34.32	26.270	176.0	0.583
300	11.37	34.34	26.214	181.3	0.665	300	10.57	34.28	26.312	172.0	0.628	300	10.57	34.28	26.312	172.0	0.628
350	10.17	34.24	26.350	168.4	0.756	350	9.80	34.23	26.405	163.1	0.715	350	9.80	34.23	26.405	163.1	0.715
400	9.06	34.16	26.472	156.8	0.841	400	9.13	34.18	26.477	156.4	0.799	400	9.13	34.18	26.477	156.4	0.799
450	8.28	34.10	26.547	149.7	0.921	450	8.02	34.10	26.586	146.0	0.878	450	8.02	34.10	26.586	146.0	0.878
500	7.17	34.02	26.646	140.3	0.998	500	7.03	34.05	26.689	136.3	0.953	500	7.03	34.05	26.689	136.3	0.953
550	6.34	34.00	26.742	131.2	1.070	550	6.25	34.02	26.769	128.6	1.023	550	6.25	34.02	26.769	128.6	1.023
600	5.79	34.00	26.812	124.6	1.137	600	5.60	34.03	26.859	120.2	1.089	600	5.60	34.03	26.859	120.2	1.089
650	5.14	34.03	26.913	115.0	1.201	650	4.95	34.05	26.951	111.4	1.150	650	4.95	34.05	26.951	111.4	1.150
700	4.79	34.05	26.969	109.7	1.261	700	4.56	34.09	27.026	104.3	1.207	700	4.56	34.09	27.026	104.3	1.207
750	4.44	34.10	27.047	102.3	1.317	750	4.27	34.14	27.097	97.5	1.261	750	4.27	34.14	27.097	97.5	1.261
800	4.26	34.14	27.098	97.4	1.371	800	4.04	34.18	27.153	92.2	1.312	800	4.04	34.18	27.153	92.2	1.312
850	4.04	34.17	27.145	93.0	1.422	850	3.83	34.22	27.206	87.2	1.361	850	3.83	34.22	27.206	87.2	1.361
900	3.85	34.21	27.196	88.1	1.471	900	3.67	34.25	27.246	83.4	1.407	900	3.67	34.25	27.246	83.4	1.407
950	3.64	34.25	27.249	83.1	1.518	950	3.55	34.28	27.281	80.0	1.451	950	3.55	34.28	27.281	80.0	1.451
1000	3.52	34.28	27.284	79.8	1.562	1000	3.43	34.30	27.309	77.4	1.495	1000	3.43	34.30	27.309	77.4	1.495
1100	3.25	34.33	27.350	73.6	1.647	1100	3.15	34.36	27.383	70.4	1.576	1100	3.15	34.36	27.383	70.4	1.576
1200	3.03	34.38	27.410	67.8	1.725	1200	2.92	34.41	27.444	64.6	1.651	1200	2.92	34.41	27.444	64.6	1.651
1300	2.81	34.43	27.470	62.2	1.798												
1400	2.63	34.46	27.509	58.4	1.867												
1500	2.50	34.49	27.545	55.1	1.932												
1600	2.369	34.516	27.576	52.1	1.993												
1700	2.225	34.538	27.606	49.3	2.052												
1800	2.124	34.561	27.632	46.8	2.109												
1900	2.023	34.579	27.655	44.7	2.163												
2000	1.934	34.594	27.674	42.9	2.215												
2100	1.848	34.608	27.692	41.2	2.266												
2200	1.796	34.619	27.704	40.0	2.315												
2300	1.748	34.627	27.714	39.0	2.363												
2400	1.692	34.635	27.725	38.0	2.410												
2500	1.660	34.641	27.732	37.3	2.456												
2600	1.617	34.648	27.741	36.5	2.502												
2700	1.589	34.652	27.746	36.0	2.548												
2800	1.569	34.657	27.752	35.5	2.593												
2900	1.554	34.660	27.755	35.1	2.637												
3000	1.528	34.664	27.760	34.7	2.682												
3100	1.506	34.668	27.765	34.2	2.726												
3200	1.502	34.667	27.765	34.3	2.770												
3300	1.488	34.673	27.770	33.7	2.814												
3400	1.469	34.676	27.774	33.3	2.858												
3441	1.466	34.677	27.775	33.2	2.876												

RV THOMAS WASHINGTON

INDOPAC LEG I

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LATITUDE		LONGITUDE		MO/DAY/YR		MESSENGER		TIME	BOTTOM		WIND	SPEED	WEATHER	DOMINANT WAVES	
34 59.3N		179 59.6E		4/13/76		2001 2224		GMT	3711M		200	15KT	1	49	
Z	T	S	O2	P04	S103	N02	N03	DT	Z	T	S	O2	SIGT	DT	DD
2	15.06	34.435	5.94	0.18	7.4		0.8	245.1	0	15.06	34.435	5.94	25.543	245.1	0.000
11	15.01	34.431	5.96	0.18	7.1		0.8	244.3	10	15.01	34.432	5.96	25.550	244.4	0.024
22	14.98	34.431	5.94	0.19	6.9		0.8	243.7	20	14.99	34.433	5.94	25.557	243.7	0.049
31	15.02	34.432	5.95	0.18	6.8		0.8	244.5	30	15.02	34.433	5.95	25.550	244.4	0.073
40	14.99	34.433	5.96	0.21	6.8		0.8	243.8	50	14.95	34.437	5.96	25.568	242.7	0.122
49	14.97	34.434	5.96	0.20	6.8		1.0	243.3	75	14.08	34.461	5.73	25.773	223.2	0.181
60	14.66	34.462	5.90	0.25	7.2		1.8	234.8	100	13.83	34.474	5.58	25.835	217.3	0.237
74	14.10	34.460	5.74	0.32	7.8		3.6	223.6	125	13.57	34.464	5.57	25.881	213.0	0.291
96	13.87	34.474	5.58	0.39	8.2		5.0	218.0	150	13.29	34.448	5.52	25.927	208.6	0.345
144	13.36	34.449	5.57	0.47	9.7		6.2	209.9	200	12.58	34.424	5.20	26.050	196.8	0.449
191	12.72	34.432	5.21	0.68	12.4		9.6	196.9	250	11.75	34.369	5.17	26.186	185.9	0.547
238	11.94	34.382	5.17	0.80	14.8		11.3	188.3	300	10.89	34.302	5.17	26.273	175.7	0.641
285	11.18	34.325	5.19	0.94	17.6		12.7	179.1	400	8.97	34.159	4.97	26.484	155.6	0.813
380	9.30	34.182	5.07	1.27	26.4		17.0	158.8	500	7.38	34.056	4.23	26.644	140.5	0.969
474	7.82	34.080	4.44	1.63	38.7		22.4	144.7	600	5.81	34.010	3.25	26.816	124.2	1.109
569	6.25	34.012	3.60	2.05	57.3		28.8	129.2	700	4.76	34.056	2.19	26.976	109.0	1.233
663	5.07	34.028	2.55	2.51	79.4		35.2	114.3	800	4.14	34.144	1.41	27.113	96.0	1.343
759	4.37	34.106	1.69	2.84	99.1		39.8	101.1	1000	3.39	34.299	0.60	27.312	77.2	1.531
951	3.53	34.269	0.73	3.12	128.8		44.2	80.7	1200	2.94	34.397	0.51	27.432	65.8	1.689
1067A	3.23	34.334	0.50	3.18	142.3		44.8	73.1	1500	2.42	34.499	0.68	27.558	53.8	1.892
1147	3.05	34.373	0.50	3.19	147.7		45.5	68.5	1750	2.13	34.554	1.00	27.626	47.4	2.039
1367A	2.62	34.460	0.57	3.23	164.6		45.4	58.4	2000	1.92	34.598	1.48	27.677	42.5	2.171
1669A	2.21	34.537	0.88	3.15	175.4		44.7	49.3	2250	1.75	34.626	2.08	27.713	39.2	2.295
1969A	1.94	34.592	1.40	3.04	180.7		43.3	43.1	2500	1.63	34.642	2.49	27.735	37.0	2.411
2269A	1.74	34.627	2.13	2.90	178.0		41.3	39.0	2750	1.55	34.655	2.78	27.751	35.5	2.524
2569A	1.60	34.646	2.57	2.79	173.8		39.9	36.5	3000	1.51	34.665	3.03	27.761	34.5	2.635
2866A	1.534	34.661	2.90	2.71	170.4		38.8	34.9	3250	1.48	34.671	3.20	27.769	33.8	2.745
3161A	1.490	34.668	3.16	2.65	167.3		38.2	34.1	3500	1.46	34.679	3.34	27.777	33.1	2.854
3554A	1.451	34.680	3.37	2.63	164.4		37.4	32.9							
3651A	1.436	34.683	3.46	2.56	163.8		37.3	32.6							

RV THOMAS WASHINGTON

INDOPAC LEG I

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LATITUDE		LONGITUDE		MO/DAY/YR		MESSENGER		TIME	BOTTOM		WIND	SPEED	WEATHER	DOMINANT WAVES	
34 59.8N		179 00.3E		4/14/76		0927 GMT			3739M		270	12KT			
Z	T	S	O2	P04	S103	N02	N03	DT	Z	T	S	O2	SIGT	DT	DD
1	15.14	34.448	5.95					245.8	0	15.14	34.448	5.95	25.535	245.8	0.000
10	15.14	34.448	5.93					245.8	10	15.14	34.448	5.93	25.535	245.8	0.025
20	15.16	34.450	5.96					246.1	20	15.16	34.450	5.96	25.532	246.1	0.049
31	15.15	34.454	5.95					245.6	30	15.15	34.454	5.95	25.537	245.6	0.074
50	15.07	34.456	5.96					243.7	50	15.07	34.456	5.96	25.557	243.7	0.123
76	14.57	34.464	5.93					232.8	75	14.59	34.464	5.93	25.666	233.4	0.183
100	14.07	34.469	5.74					222.4	100	14.07	34.469	5.74	25.781	222.4	0.241
125	13.93	34.481	5.61					218.7	125	13.93	34.481	5.61	25.820	218.7	0.297
151	13.68	34.479	5.56					213.9	150	13.69	34.480	5.56	25.868	214.1	0.352
200	13.01	34.454	5.20					202.8	200	13.01	34.454	5.20	25.987	202.8	0.458
248	12.24	34.406	5.12					192.0	250	12.20	34.404	5.12	26.107	191.5	0.560
298	11.26	34.337	5.12					179.6	300	11.22	34.335	5.12	26.237	179.1	0.656
397	9.23	34.172	4.90					158.5	400	9.16	34.168	4.88	26.461	157.9	0.831
494	7.22	34.048	4.11					138.9	500	7.11	34.044	4.06	26.672	137.9	0.987
593	5.74	34.008	3.18					123.4	600	5.66	34.010	3.11	26.834	122.5	1.125
691	4.78	34.049	2.26					109.6	700	4.70	34.060	2.16	26.986	108.1	1.247
788	4.07	34.162	1.37					93.9	800	4.02	34.173	1.32	27.148	92.7	1.355
886	3.76	34.229	1.10					85.9	1000	3.40	34.300	0.78	27.311	77.3	1.539
984	3.44	34.290	0.81					78.3	1200	2.96	34.398	0.63	27.431	65.9	1.697
1183	3.00	34.390	0.64					66.8							

59D						INDOPAC LEG I						60					
LATITUDE	LONGITUDE	MO/DAY/YR	START TIME			LATITUDE	LONGITUDE	MO/DAY/YR	START TIME			LATITUDE	LONGITUDE	MO/DAY/YR	START TIME		
34 59.3N	179 59.6E	04/13/76	1904 GMT			34 59.8N	179 00.5E	04/14/76	0642 GMT			34 59.8N	179 00.5E	04/14/76	0642 GMT		
Z	T	S	SIGMA T	DT	DD	Z	T	S	SIGMA T	DT	DD	Z	T	S	SIGMA T	DT	DD
0	14.91	34.38	25.533	246.0	0.000	0	15.14	34.46	25.544	244.9	0.000	0	15.14	34.46	25.544	244.9	0.000
10	14.91	34.41	25.556	243.8	0.025	10	15.13	34.45	25.539	245.4	0.025	10	15.13	34.45	25.539	245.4	0.025
20	14.92	34.42	25.562	243.3	0.049	20	15.14	34.45	25.537	245.7	0.049	20	15.14	34.45	25.537	245.7	0.049
30	14.92	34.42	25.562	243.3	0.073	30	15.13	34.47	25.554	244.0	0.074	30	15.13	34.47	25.554	244.0	0.074
40	14.88	34.43	25.578	241.7	0.098	40	15.06	34.47	25.570	242.5	0.098	40	15.06	34.47	25.570	242.5	0.098
50	14.47	34.45	25.682	231.8	0.121	50	14.85	34.46	25.608	238.9	0.122	50	14.85	34.46	25.608	238.9	0.122
75	13.93	34.46	25.804	220.3	0.178	75	14.30	34.47	25.734	226.9	0.181	75	14.30	34.47	25.734	226.9	0.181
100	13.64	34.45	25.856	215.3	0.233	100	14.02	34.48	25.801	220.6	0.238	100	14.02	34.48	25.801	220.6	0.238
125	13.38	34.45	25.910	210.2	0.287	125	13.82	34.48	25.842	216.6	0.293	125	13.82	34.48	25.842	216.6	0.293
150	13.18	34.44	25.943	207.1	0.340	150	13.49	34.47	25.903	210.9	0.347	150	13.49	34.47	25.903	210.9	0.347
175	12.83	34.43	26.005	201.2	0.393	175	13.25	34.48	25.959	205.5	0.400	175	13.25	34.48	25.959	205.5	0.400
200	12.51	34.41	26.052	196.0	0.443	200	12.92	34.46	26.010	200.7	0.452	200	12.92	34.46	26.010	200.7	0.452
225	12.13	34.40	26.118	190.4	0.493	225	12.51	34.43	26.068	195.2	0.503	225	12.51	34.43	26.068	195.2	0.503
250	11.57	34.36	26.193	183.3	0.541	250	12.08	34.40	26.128	189.5	0.553	250	12.08	34.40	26.128	189.5	0.553
275	11.09	34.32	26.250	177.9	0.588	275	11.69	34.37	26.178	184.7	0.601	275	11.69	34.37	26.178	184.7	0.601
300	10.75	34.29	26.288	174.3	0.634	300	11.18	34.33	26.242	178.7	0.648	300	11.18	34.33	26.242	178.7	0.648
350	9.94	34.23	26.382	165.4	0.722	350	10.12	34.25	26.367	166.8	0.738	350	10.12	34.25	26.367	166.8	0.738
400	8.75	34.13	26.498	154.4	0.806	400	9.28	34.18	26.452	158.7	0.824	400	9.28	34.18	26.452	158.7	0.824
450	7.91	34.09	26.594	145.2	0.884	450	8.25	34.11	26.559	148.5	0.904	450	8.25	34.11	26.559	148.5	0.904
500	7.22	34.04	26.654	139.5	0.959	500	7.20	34.05	26.665	138.5	0.980	500	7.20	34.05	26.665	138.5	0.980
550	6.30	34.01	26.755	130.0	1.031	550	6.45	34.02	26.743	131.1	1.051	550	6.45	34.02	26.743	131.1	1.051
600	5.70	34.00	26.823	123.6	1.098	600	5.76	34.01	26.823	123.5	1.119	600	5.76	34.01	26.823	123.5	1.119
650	5.21	34.01	26.889	117.2	1.162	650	5.06	34.03	26.923	114.1	1.182	650	5.06	34.03	26.923	114.1	1.182
700	4.74	34.05	26.975	109.1	1.222	700	4.76	34.05	26.972	109.4	1.241	700	4.76	34.05	26.972	109.4	1.241
750	4.45	34.09	27.038	103.1	1.278	750	4.36	34.10	27.054	101.7	1.297	750	4.36	34.10	27.054	101.7	1.297
800	4.15	34.14	27.110	96.3	1.332	800	4.07	34.16	27.134	94.0	1.350	800	4.07	34.16	27.134	94.0	1.350
850	3.89	34.18	27.168	90.8	1.382	850	3.88	34.20	27.185	89.2	1.399	850	3.88	34.20	27.185	89.2	1.399
900	3.67	34.24	27.238	84.2	1.430	900	3.72	34.24	27.233	84.7	1.446	900	3.72	34.24	27.233	84.7	1.446
950	3.47	34.28	27.289	79.3	1.474	950	3.61	34.26	27.260	82.1	1.492	950	3.61	34.26	27.260	82.1	1.492
1000	3.33	34.31	27.327	75.8	1.516	1000	3.41	34.30	27.311	77.3	1.535	1000	3.41	34.30	27.311	77.3	1.535
1100	3.13	34.35	27.377	71.0	1.597	1100	3.16	34.35	27.374	71.2	1.617	1100	3.16	34.35	27.374	71.2	1.617
1200	2.90	34.40	27.436	65.2	1.673	1200	2.95	34.40	27.433	65.6	1.693	1200	2.95	34.40	27.433	65.6	1.693
1300	2.75	34.43	27.475	61.7	1.744												
1400	2.56	34.47	27.524	57.1	1.811												
1500	2.42	34.49	27.551	54.5	1.875												
1600	2.286	34.522	27.588	51.0	1.936												
1700	2.173	34.548	27.618	48.1	1.993												
1800	2.072	34.568	27.642	45.9	2.049												
1900	2.000	34.581	27.658	44.3	2.102												
2000	1.906	34.599	27.680	42.3	2.154												
2100	1.831	34.609	27.694	41.0	2.203												
2200	1.773	34.621	27.708	39.6	2.252												
2300	1.717	34.631	27.720	38.5	2.300												
2400	1.663	34.639	27.730	37.5	2.346												
2500	1.633	34.645	27.737	36.8	2.392												
2600	1.595	34.651	27.745	36.1	2.437												
2700	1.565	34.657	27.752	35.5	2.482												
2800	1.540	34.661	27.757	35.0	2.526												
2900	1.515	34.664	27.761	34.6	2.570												
3000	1.500	34.667	27.765	34.2	2.614												
3100	1.490	34.672	27.770	33.8	2.658												
3200	1.478	34.673	27.771	33.6	2.701												
3300	1.467	34.674	27.773	33.5	2.745												
3400	1.453	34.678	27.777	33.1	2.788												
3500	1.449	34.679	27.778	33.0	2.832												
3600	1.445	34.682	27.781	32.7	2.875												

RV THOMAS WASHINGTON

INDOPAC LEG 1

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LATITUDE		LONGITUDE		MO/DAY/YR		MESSENGER		TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES		
34 59. N		177 58.4E		4/14/76		1633 2112		GMT	3667M	310	17KT	1	270 8 8		
Z	T	S	O2	P04	SIC3	N02	N03	DT	Z	T	S	O2	SIGT	DT	DD
2	14.33	34.348	6.10	0.14	7.9	0.00	0.0	236.5	0	14.33	34.348	6.10	25.633	236.5	0.000
12	14.33	34.343	6.15	0.16	7.8	0.01	0.0	236.8	10	14.33	34.345	6.14	25.630	236.8	0.024
22	14.34	34.344	6.09	0.16	7.7	0.01	0.0	237.0	20	14.34	34.345	6.10	25.628	236.9	0.047
32	14.32	34.356	6.06	0.16	7.6	0.03	0.1	235.7	30	14.32	34.353	6.08	25.638	236.1	0.071
50	14.15	34.408	5.89	0.25	7.6	0.04	1.2	228.4	50	14.15	34.408	5.89	25.718	228.4	0.118
61	14.09	34.418	5.85	0.30	7.5	0.39	1.3	226.5	75	13.95	34.421	5.78	25.770	223.5	0.175
75	13.95	34.421	5.78	0.29	7.6	0.67	1.8	223.5	100	13.68	34.479	5.69	25.871	213.9	0.230
89	13.76	34.443	5.68	0.39	8.0	0.23	3.9	218.1	125	13.29	34.476	5.44	25.948	206.5	0.283
98	13.70	34.475	5.70	0.43	9.3	0.14	4.7	214.6	150	12.83	34.445	5.32	26.016	200.1	0.335
123	13.32	34.477	5.46	0.58	11.5	0.00	7.2	207.1	200	11.77	34.365	5.39	26.160	186.4	0.434
146	12.92	34.452	5.32	0.68	12.4	0.00	8.7	201.2	250	11.10	34.328	5.19	26.255	177.4	0.527
194	11.86	34.370	5.41	0.80	14.6	0.00	10.1	187.7	300	10.38	34.276	5.07	26.342	169.2	0.617
241	11.21	34.334	5.21	0.92	18.4	0.00	12.5	178.9	400	8.42	34.117	4.66	26.538	150.6	0.784
289	10.57	34.292	5.09	1.10	21.7	0.00	14.4	171.1	500	6.56	34.030	3.76	26.735	131.8	0.932
384	8.75	34.138	4.77	1.37	31.6	0.00	19.2	153.8	600	5.27	34.028	2.81	26.895	116.7	1.063
477	6.94	34.041	3.99	1.87	49.6	0.00	26.2	135.8	700	4.49	34.088	2.01	27.032	103.7	1.160
572	5.55	34.016	3.06	2.39	69.2	0.00	32.6	120.6	800	4.01	34.185	1.45	27.159	91.6	1.285
760	4.19	34.138	1.61	2.87	105.1	0.00	40.5	96.9	1000	3.30	34.326	0.85	27.342	74.3	1.465
952	3.48	34.297	0.82	3.08	133.1	0.00	44.1	78.1	1200	2.97	34.402	0.62	27.433	65.7	1.620
973A	3.41	34.293	0.89	3.10	134.4	0.00	43.4	77.8	1500	2.42	34.499	0.72	27.558	53.8	1.823
1146	2.96	34.424	0.62	3.20	151.1	0.00	45.5	63.9	1750	2.14	34.551	1.04	27.623	47.7	1.970
1172A	2.99	34.388	0.61	3.17	150.0	0.03	44.7	66.9	2000	1.92	34.594	1.50	27.674	42.9	2.104
1370A	2.63	34.459	0.65	3.18	162.7	0.02	44.9	58.5	2250	1.75	34.622	1.90	27.709	39.5	2.228
1569A	2.32	34.516	0.78	3.12	172.2	0.03	44.8	51.7	2500	1.63	34.640	2.43	27.733	37.2	2.345
1782B	2.11	34.556	1.10	3.10	177.0	0.00	43.9	47.1	2750	1.56	34.654	2.74	27.749	35.7	2.459
1984B	1.93	34.590	1.48	3.04	181.1	0.00	43.1	43.1	3000	1.51	34.666	2.99	27.763	34.4	2.570
2185B	1.79	34.614	1.74	2.96	180.6	0.00	42.1	40.3	3250	1.48	34.670	3.14	27.768	34.0	2.680
2387B	1.68	34.634	2.24	2.83	176.9	0.00	40.7	38.0	3500	1.45	34.679	3.42	27.778	33.0	2.789
2587B	1.60	34.643	2.54	2.76	172.8	0.00	40.2	36.8							
2767B	1.55	34.655	2.78	2.70	170.2	0.00	39.0	35.5							
2986B	1.51	34.665	2.99	2.63	168.5	0.00	38.2	34.5							
3184B	1.492	34.667	3.06	2.59	166.8	0.00	37.7	34.2							
3380B	1.465	34.674	3.30	2.57	165.4	0.00	37.5	33.5							
3574B	1.437	34.681	3.45	2.58	164.2	0.00	37.0	32.7							
3625B	1.424	34.681	3.43	2.62	164.6	0.00	36.4	32.7							

RV THOMAS WASHINGTON

INDOPAC LEG 1

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LATITUDE		LONGITUDE		MO/DAY/YR		MESSENGER		TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES		
34 59.1N		176 58.3E		4/15/76		034A GMT			2634M	350	10KT	1	310 11 6		
Z	T	S	O2	P04	SIC3	N02	N03	DT	Z	T	S	O2	SIGT	DT	DD
0	14.26	34.422	6.03					229.6	0	14.26	34.422	6.03	25.705	229.6	0.000
10	14.23	34.418	6.07					229.3	10	14.23	34.418	6.07	25.708	229.3	0.023
20	14.18	34.421	6.07					228.1	20	14.18	34.421	6.07	25.721	228.1	0.046
31	14.18	34.420	6.11					228.2	30	14.18	34.421	6.11	25.721	228.2	0.069
51	14.07	34.432	5.98					225.1	50	14.08	34.431	5.99	25.750	225.4	0.114
75	13.73	34.494	5.48					213.8	75	13.73	34.494	5.48	25.872	213.8	0.170
100	13.57	34.479	5.74					211.8	100	13.57	34.479	5.74	25.893	211.8	0.223
126	13.47	34.468	5.79					210.6	125	13.47	34.469	5.79	25.905	210.7	0.277
151	13.29	34.466	5.71					207.3	150	13.30	34.467	5.72	25.939	207.4	0.330
202	12.59	34.428	5.29					196.8	200	12.62	34.431	5.31	26.046	197.3	0.434
251	11.82	34.379	5.20					186.3	250	11.84	34.381	5.20	26.158	186.6	0.532
301	11.03	34.324	5.12					176.5	300	11.05	34.326	5.12	26.262	176.7	0.626
401	9.66	34.214	3.13					162.1	400	9.67	34.216	5.13	26.415	162.2	0.803
501	7.76	34.074	4.66					144.3	500	7.78	34.076	4.67	26.602	144.5	0.965
600	6.04	34.008	3.57					127.0	600	6.04	34.008	3.57	26.787	127.0	1.109
698	4.92	34.039	2.47					111.9	700	4.90	34.042	2.45	26.949	111.6	1.236
797	4.25	34.128	1.71					98.2	800	4.24	34.132	1.69	27.094	97.9	1.348
897	3.83	34.221	1.17					87.1	1000	3.47	34.295	1.01	27.300	76.0	1.539
995	3.49								1200	2.93	34.401		27.436	65.4	1.697
1194	2.94	34.398	0.72					65.7							

61D						INDOPAC LEG I						62									
LATITUDE		LONGITUDE		MO/DAY/YR		START TIME		LATITUDE		LONGITUDE		MO/DAY/YR		START TIME							
34 59.0N		177 58.4E		04/14/76		1515 GMT		34 59.1N		176 58.3E		04/15/76		0512 GMT							
Z	T	S	SIGMA T	DT	DD							Z	T	S	SIGMA T	DT	DD				
0	14.32	34.34	25.629	236.8	0.000							0	14.21	34.42	25.714	228.8	0.000				
10	14.32	34.34	25.629	236.8	0.024							10	14.20	34.42	25.716	228.6	0.023				
20	14.32	34.34	25.629	236.8	0.047							20	14.18	34.42	25.721	228.2	0.046				
30	14.28	34.37	25.661	233.8	0.071							30	14.16	34.43	25.733	227.0	0.069				
40	14.11	34.40	25.720	228.2	0.094							40	14.14	34.43	25.737	226.6	0.091				
50	14.01	34.41	25.749	225.5	0.117							50	14.11	34.43	25.743	226.0	0.114				
75	13.85	34.44	25.805	220.1	0.173							75	13.81	34.50	25.860	214.9	0.170				
100	13.58	34.49	25.900	211.2	0.228							100	13.61	34.49	25.893	211.7	0.224				
125	13.21	34.46	25.952	206.2	0.261							125	13.44	34.47	25.913	209.9	0.277				
150	12.96	34.45	25.994	202.1	0.333							150	13.31	34.46	25.932	208.1	0.330				
175	12.50	34.42	26.062	195.7	0.383							175	13.01	34.45	25.984	203.1	0.383				
200	12.03	34.39	26.130	189.3	0.433							200	12.73	34.44	26.032	198.5	0.434				
225	11.59	34.36	26.189	183.7	0.481							225	12.38	34.41	26.078	194.2	0.485				
250	11.16	34.34	26.253	177.6	0.527							250	11.97	34.39	26.141	188.2	0.534				
275	10.78	34.31	26.298	173.3	0.572							275	11.55	34.36	26.197	182.9	0.582				
300	10.15	34.24	26.354	168.0	0.617							300	11.23	34.34	26.240	178.8	0.629				
350	9.39	34.18	26.434	160.4	0.702							350	10.25	34.26	26.352	168.2	0.719				
400	8.53	34.12	26.524	151.9	0.784							400	9.61	34.21	26.421	161.6	0.806				
450	7.72	34.07	26.607	144.1	0.861							450	8.67	34.14	26.518	152.4	0.888				
500	6.78	34.02	26.699	135.3	0.935							500	7.54	34.07	26.633	141.6	0.966				
550	5.85	33.99	26.796	126.1	1.004							550	6.46	34.02	26.742	131.2	1.038				
600	5.20	34.01	26.891	117.1	1.068							600	5.81	34.00	26.809	124.8	1.106				
650	4.78	34.05	26.970	109.6	1.128							650	5.20	34.02	26.898	116.4	1.170				
700	4.43	34.08	27.032	103.7	1.185							700	4.84	34.05	26.963	110.2	1.230				
750	4.25	34.11	27.075	99.6	1.239							750	4.53	34.09	27.029	104.0	1.287				
800	4.04	34.16	27.137	93.7	1.291							800	4.24	34.13	27.092	98.0	1.341				
850	3.84	34.20	27.189	88.6	1.340							850	4.03	34.17	27.146	92.9	1.393				
900	3.68	34.24	27.237	84.3	1.387							900	3.88	34.22	27.206	87.2	1.441				
950	3.50	34.27	27.278	80.3	1.432							950	3.65	34.26	27.256	82.5	1.488				
1000	3.32	34.31	27.328	75.7	1.474							1000	3.46	34.30	27.306	77.7	1.531				
1100	3.12	34.36	27.386	70.1	1.554							1100	3.16	34.36	27.382	70.5	1.613				
1200	2.93	34.40	27.435	65.5	1.630							1187	2.93	34.40	27.435	65.5	1.679				
1300	2.73	34.44	27.485	60.8	1.701																
1400	2.57	34.47	27.523	57.2	1.768																
1500	2.42	34.50	27.559	53.7	1.831																
1600	2.281	34.524	27.590	50.6	1.891																
1700	2.168	34.546	27.617	48.3	1.949																
1800	2.063	34.567	27.642	45.9	2.004																
1900	1.993	34.583	27.660	44.1	2.057																
2000	1.899	34.596	27.678	42.5	2.109																
2100	1.842	34.605	27.690	41.4	2.159																
2200	1.793	34.619	27.705	39.9	2.208																
2300	1.729	34.627	27.716	38.9	2.256																
2400	1.677	34.639	27.729	37.6	2.303																
2500	1.635	34.643	27.736	37.0	2.349																
2600	1.596	34.650	27.744	36.2	2.394																
2700	1.569	34.656	27.751	35.5	2.439																
2800	1.540	34.662	27.758	34.9	2.484																
2900	1.516	34.664	27.761	34.6	2.528																
3000	1.498	34.667	27.765	34.2	2.571																
3100	1.486	34.669	27.767	34.0	2.615																
3200	1.470	34.674	27.773	33.5	2.659																
3300	1.461	34.674	27.773	33.5	2.702																
3400	1.444	34.677	27.777	33.1	2.745																
3500	1.439	34.679	27.779	32.9	2.789																
3600	1.421	34.682	27.783	32.6	2.832																
3653	1.411	34.684	27.785	32.3	2.855																

RV THOMAS WASHINGTON

INDOPAC LEG I

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LATITUDE		LONGITUDE		NO/DAY/YR		MESSENGER TIME		BOTTOM		WIND		SPEED		WEATHER		DOMINANT WAVES	
34 58.5N		175 57.8E		4/15/76		1041 1423 GMT		4905M		090		2KT					
Z	T	S	O2	P04	SIG3	N02	N03	DT	Z	T	S	O2	SIGT	DT	DD		
1	15.06	34.542	5.89	0.16	6.4	0.16	2.0	237.3	0	15.06	34.542	5.89	25.625	237.3	0.000		
11	15.04	34.543	5.87	0.19	6.3	0.16	2.0	236.8	10	15.04	34.543	5.87	25.630	236.8	0.024		
22	15.04	34.542	5.87	0.19	6.2	0.16	1.9	236.8	20	15.04	34.543	5.87	25.629	236.8	0.047		
31	15.05	34.543	5.86	0.20	6.1	0.16	2.0	237.2	30	15.06	34.543	5.86	25.626	237.1	0.071		
51	15.04	34.542	5.86	0.20	6.0	0.18	2.1	236.8	50	15.04	34.543	5.86	25.629	236.9	0.119		
60	15.00	34.538	5.87	0.20	5.9	0.21	2.1	236.3	75	14.79	34.532	5.82	25.676	232.4	0.178		
76	14.77	34.531	5.82	0.24	6.5	0.29	2.7	232.0	100	14.29	34.525	5.76	25.778	222.7	0.235		
91	14.48	34.529	5.76	0.28	7.0	0.31	3.7	226.2	125	14.06	34.516	5.76	25.819	218.8	0.291		
101	14.27	34.524	5.78	0.32	7.6	0.35	3.9	222.4	150	13.97	34.509	5.75	25.832	217.6	0.347		
126	14.06	34.515	5.76	0.37	8.2	0.34	4.6	218.8	200	13.62	34.496	5.74	25.895	211.5	0.457		
992	13.97	34.508	5.75	0.38	8.5	0.40	4.6	217.5	250	12.99	34.454	5.56	25.990	202.6	0.563		
201	13.61	34.495	5.74	0.43	9.0	0.04	6.0	211.4	300	12.48	34.418	5.53	26.064	195.3	0.666		
251	12.98	34.452	5.56	0.55	11.3	0.01	7.8	202.4	400	10.71	34.318	5.05	26.281	174.9	0.660		
300	12.48	34.418	5.53	0.62	13.4	0.01	9.1	195.5	500	8.72	34.146	4.95	26.514	152.8	1.333		
400	10.91	34.318	5.05	0.98	20.9	0.01	14.1	174.9	600	6.53	34.011	4.04	26.724	132.9	1.184		
498	8.77	34.149	4.26	1.36	30.3	0.00	18.6	153.3	700	5.16	34.021	2.90	26.903	115.9	1.317		
599	6.55	34.010	4.05	1.94	51.7	0.00	26.8	133.1	800	4.36	34.101	1.88	27.056	101.5	1.433		
797	4.38	34.097	1.90	2.80	97.8	0.00	39.2	101.9	1000	3.62	34.257	1.07	27.256	82.5	1.633		
884A	3.97	34.185	1.40	2.88	112.6	0.00	40.9	91.2	1200	3.05	34.378	0.78	27.404	68.5	1.800		
992	3.66	34.249	1.10	3.08	124.9	0.06	42.6	83.4	1500	2.56	34.472	0.91	27.525	57.5	2.013		
1135A	3.11	34.363	0.77	3.17	143.7	0.00	43.8	69.8	1750	2.17	34.549	1.13	27.618	48.1	2.166		
1191	3.06	34.371	0.78	3.17	146.6	0.00	44.6	68.8	2000	1.76	34.597	1.60	27.673	42.9	2.300		
1688A	2.24	34.532	0.99	3.18	173.2	0.02	44.2	49.9	2250	1.79	34.623	2.02	27.707	39.6	2.425		
1887A	2.05	34.579	1.43	3.05	175.2	0.00	43.0	44.9	2500	1.64	34.645	2.45	27.736	36.9	2.543		
2087A	1.89	34.606	1.73	2.97	176.4	0.00	42.2	41.6	2750	1.58	34.656	2.72	27.749	35.7	2.656		
2286A	1.77	34.626	2.09	2.90	174.3	0.00	41.2	39.2	3000	1.55	34.665	2.90	27.759	34.8	2.768		
2485A	1.65	34.644	2.43	2.84	173.2	0.00	40.1	37.0	3250	1.52	34.674	3.08	27.768	33.9	2.879		
2684A	1.59	34.653	2.66	2.79	172.5	0.01	39.8	35.9	3500	1.50	34.676	3.24	27.771	33.6	2.991		
2883A	1.56	34.659	2.82	2.75	168.6	0.01	38.9	35.3	3750	1.48	34.685	3.41	27.780	32.8	3.102		
3081A	1.55	34.668	2.95	2.71	168.1	0.01	38.7	34.5	4000	1.47	34.689	3.49	27.784	32.4	3.213		
3280A	1.52	34.674	3.10	2.65	165.0	0.00	38.2	33.8	4250	1.47	34.691	3.58	27.786	32.2	3.324		
3479A	1.50	34.674	3.22	2.64	165.1	0.00	38.1	33.7	4500	1.48	34.694	3.67	27.787	32.2	3.438		
3677A	1.49	34.683	3.37	2.60	164.9	0.01	37.7	33.0	4750	1.51	34.693	3.73	27.784	32.0	3.553		
3874A	1.47	34.687	3.46	2.57	162.9	0.00	37.6	32.5	5000	1.53	34.695		27.784	32.4	3.671		
4121A	1.47	34.689	3.52	2.56	161.9	0.00	37.3	32.4									
4367A	1.47	34.692	3.64	2.54	160.3	0.00	37.0	32.1									
4662A	1.503	34.694	3.70	2.53	159.7	0.00	37.0	32.2									
4760A	1.512	34.692	3.73	2.53	159.4	0.01	36.9	32.4									
4808A	1.515	34.693	3.70	2.53	159.2	0.00	36.8	32.4									
4848A	1.523	34.694	3.68	2.52	159.2	0.00	36.7	32.4									

RV THOMAS WASHINGTON

INDOPAC LEG I

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LATITUDE		LONGITUDE		NO/DAY/YR		MESSENGER TIME		BOTTOM		WIND		SPEED		WEATHER		DOMINANT WAVES	
35 01.1N		175 01.2E		4/15/76		2011 GMT		4045M		180		3KT		1		49	
Z	T	S	O2	P04	SIG3	N02	N03	DT	Z	T	S	O2	SIGT	DT	DD		
0	15.17	34.542	5.84					239.6	0	15.17	34.542	5.84	25.601	239.6	0.000		
10	15.15	34.539	5.84					239.3	10	15.15	34.539	5.84	25.603	239.3	0.024		
20	15.15	34.536	5.85					239.4	20	15.15	34.538	5.85	25.602	239.4	0.048		
31	15.18	34.540	5.83					239.9	30	15.18	34.540	5.83	25.597	239.9	0.072		
51	15.17	34.540	5.83E					239.7	50	15.17	34.541	5.83	25.599	239.7	0.120		
76	15.16	34.542	5.80					239.3	75	15.16	34.542	5.80	25.603	239.4	0.181		
100	15.16	34.557	5.72					238.3	100	15.16	34.557	5.72	25.615	238.3	0.241		
127	14.87	34.568	5.59					231.4	125	14.90	34.569	5.60	25.679	232.1	0.300		
151	14.38	34.554	5.57					222.4	150	14.40	34.555	5.57	25.777	222.8	0.358		
201	13.71	34.505	5.33					212.6	200	13.72	34.506	5.34	25.883	212.7	0.470		
251	13.25	34.474	5.19					205.9	250	13.26	34.478	5.19	25.953	206.1	0.577		
301	12.39	34.417	5.18					193.9	300	12.41	34.419	5.18	26.079	194.2	0.681		
402	10.68	34.293	5.08					172.9	400	10.72	34.297	5.08	26.298	173.3	0.873		
500	8.65	34.136	4.78					152.3	500	8.65	34.138	4.78	26.520	153.3	1.045		
600	6.79	34.013	4.11					135.9	600	6.79	34.013	4.11	26.692	135.9	1.198		
696	5.23	34.013	2.76					117.2	700	5.21	34.016	2.74	26.893	116.9	1.332		
797	4.46	34.098	1.81					102.6	800	4.44	34.102	1.79	27.047	102.3	1.450		
896	4.04	34.173	1.29					92.8	1000	3.62	34.259	0.86	27.257	82.6	1.650		
995	3.64	34.251	0.89					83.1	1200	3.01	34.380	0.67	27.412	67.7	1.816		
1193	3.03	34.376	0.68					68.2									

F) A BURETTE READING ERROR OF 0.1 MILLILITER (0.04 MILLILITER PER LITER) HAS BEEN ASSUMED.

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INDOPAC LEG I

64

LATITUDE		LONGITUDE	MO/DAY/YR		START TIME	LATITUDE		LONGITUDE	MO/DAY/YR		START TIME
34 58.5N		175 57.8E	04/15/76		0905 GMT	35 01.1N		175 01.2E	04/15/76		1924 GMT
Z	T	S	SIGMA T	DT	DD	Z	T	S	SIGMA T	DT	DD
0	15.19	34.54	25.595	240.1	0.000	0	15.13	34.53	25.600	239.6	0.000
10	15.20	34.55	25.600	239.6	0.024	10	15.14	34.54	25.606	239.1	0.024
20	15.21	34.56	25.606	239.1	0.048	20	15.15	34.55	25.611	238.5	0.048
30	15.18	34.55	25.605	239.2	0.072	30	15.15	34.55	25.611	238.5	0.072
40	15.14	34.55	25.614	238.3	0.096	40	15.15	34.55	25.611	238.5	0.096
50	15.07	34.54	25.621	237.6	0.120	50	15.15	34.55	25.611	238.5	0.120
75	15.03	34.55	25.638	236.0	0.180	75	15.15	34.55	25.611	238.5	0.180
100	14.83	34.54	25.674	232.6	0.239	100	15.00	34.56	25.652	234.7	0.240
125	14.34	34.53	25.771	223.3	0.297	125	14.63	34.56	25.732	227.0	0.296
150	14.11	34.53	25.820	218.7	0.353	150	14.46	34.58	25.780	222.5	0.355
175	13.97	34.51	25.834	217.4	0.408	175	14.15	34.54	25.819	218.8	0.412
200	13.91	34.51	25.847	216.2	0.464	200	13.84	34.52	25.869	214.1	0.467
225	13.56	34.50	25.911	210.0	0.519	225	13.32	34.49	25.953	206.1	0.521
250	13.07	34.46	25.980	203.5	0.572	250	13.11	34.47	25.980	203.5	0.574
275	12.81	34.44	26.017	200.0	0.624	275	12.78	34.45	26.030	198.7	0.626
300	12.45	34.42	26.072	194.8	0.675	300	12.47	34.43	26.076	194.4	0.677
350	11.59	34.37	26.197	182.9	0.774	350	11.40	34.35	26.217	181.0	0.775
400	10.63	34.30	26.317	171.5	0.867	400	10.76	34.30	26.294	173.7	0.868
450	9.43	34.21	26.451	158.8	0.954	450	9.75	34.22	26.406	163.1	0.956
500	8.65	34.15	26.529	151.4	1.036	500	8.61	34.13	26.520	152.3	1.040
550	7.50	34.06	26.630	141.8	1.113	550	7.73	34.07	26.605	144.2	1.118
600	6.61	34.01	26.714	133.8	1.187	600	6.79	34.02	26.698	135.4	1.193
650	5.67	34.00	26.826	123.2	1.255	650	5.93	34.00	26.794	126.3	1.262
700	5.04	34.01	26.909	115.4	1.319	700	5.32	34.02	26.884	117.7	1.327
750	4.65	34.05	26.985	108.2	1.378	750	4.86	34.05	26.961	110.4	1.388
800	4.36	34.10	27.056	101.5	1.434	800	4.52	34.09	27.031	103.8	1.446
850	4.10	34.15	27.123	95.1	1.487	850	4.26	34.15	27.112	96.1	1.500
900	3.93	34.20	27.180	89.7	1.537	900	4.04	34.18	27.153	92.2	1.551
950	3.74	34.24	27.231	84.8	1.585	950	3.81	34.22	27.208	87.0	1.600
1000	3.56	34.27	27.273	80.9	1.630	1000	3.62	34.26	27.259	82.2	1.646
1100	3.19	34.34	27.364	72.3	1.714	1100	3.28	34.33	27.347	73.8	1.732
1200	2.96	34.39	27.425	66.5	1.792	1200	3.03	34.38	27.410	67.8	1.810
1300	2.79	34.43	27.472	62.0	1.864						
1400	2.62	34.46	27.510	58.4	1.932						
1500	2.46	34.49	27.548	54.8	1.997						
1600	2.355	34.519	27.580	51.6	2.058						
1700	2.223	34.541	27.608	49.1	2.117						
1800	2.126	34.565	27.635	46.5	2.173						
1900	2.036	34.584	27.658	44.4	2.227						
2000	1.958	34.596	27.674	42.9	2.279						
2100	1.878	34.610	27.691	41.2	2.329						
2200	1.825	34.620	27.703	40.1	2.379						
2300	1.761	34.631	27.717	38.6	2.427						
2400	1.712	34.640	27.728	37.8	2.474						
2500	1.661	34.649	27.739	36.7	2.520						
2600	1.631	34.653	27.744	36.2	2.566						
2700	1.601	34.658	27.750	35.6	2.611						
2800	1.585	34.661	27.754	35.3	2.656						
2900	1.572	34.665	27.758	34.9	2.700						
3000	1.562	34.667	27.760	34.7	2.745						
3100	1.549	34.670	27.764	34.4	2.789						
3200	1.534	34.673	27.767	34.0	2.834						
3300	1.517	34.677	27.772	33.6	2.878						
3400	1.509	34.679	27.774	33.4	2.922						
3500	1.496	34.682	27.777	33.1	2.966						
3600	1.486	34.683	27.779	32.9	3.010						
3700	1.481	34.687	27.782	32.6	3.054						
3800	1.472	34.687	27.783	32.5	3.098						
3900	1.472	34.688	27.784	32.5	3.143						
4000	1.473	34.691	27.786	32.2	3.187						
4100	1.472	34.690	27.785	32.3	3.231						
4200	1.474	34.691	27.786	32.2	3.276						
4300	1.478	34.693	27.787	32.1	3.321						
4400	1.481	34.692	27.786	32.2	3.366						
4500	1.488	34.693	27.786	32.2	3.412						
4600	1.494	34.693	27.786	32.2	3.458						
4700	1.502	34.694	27.786	32.2	3.504						
4800	1.511	34.694	27.786	32.3	3.551						
4900	1.521	34.694	27.785	32.3	3.598						

RV THOMAS WASHINGTON

INDOPAC LEG I

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	LATITUDE	LONGITUDE	MO/DAY/YR			MESSENGER	TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES			
	35 00. N	174 00.3E	4/16/76			0253	0611	GMT	4358M	210	19KT	2	49		
Z	T	S	O2	P04	S103	N02	N03	DT	Z	T	S	O2	S10T	DT	DD
1	15.40	34.607	5.78	0.18	5.9		2.0	239.6	0	15.40	34.607	5.78	25.600	239.6	0.000
11	15.38	34.607	5.79	0.16	5.7		2.5	239.2	10	15.38	34.608	5.79	25.604	239.3	0.024
32	15.36	34.607	5.80	0.18	5.5		2.3	238.8	20	15.37	34.608	5.80	25.607	239.0	0.048
52	15.37	34.609	5.80	0.29	5.5		1.9	238.9	30	15.36	34.608	5.80	25.608	238.8	0.072
61	15.38	34.611	5.76	0.29	5.5		2.0	238.9	50	15.37	34.610	5.80	25.608	238.9	0.120
77	15.35	34.611	5.73	0.27	5.5		2.6	238.3	75	15.35	34.611	5.73	25.612	238.4	0.180
91	15.24	34.599	5.65	0.27	5.7		3.2	236.9	100	15.17	34.602	5.55	25.647	235.2	0.240
102	15.15	34.601	5.53	0.29	6.7		4.7	234.8	125	15.03	34.608	5.54	25.683	231.8	0.299
126	15.02	34.607	5.54	0.36	7.2		4.4	231.7	150	14.74	34.562	5.42	25.710	229.1	0.358
152	14.71	34.557	5.41	0.37	7.4		5.1	228.9	200	14.12	34.525	5.30	25.815	219.2	0.472
202	14.09	34.524	5.30	0.51	6.9		6.2	218.7	250	13.39	34.490	5.30	25.939	207.4	0.582
251	13.37	34.469	5.30	0.49	11.3		8.6	207.1	300	12.57	34.421	5.34	26.050	196.9	0.687
301	12.55	34.419	5.880	0.49	11.5		6.8	196.7	400	11.07	34.328	5.41	26.260	176.9	0.882
400	11.07	34.328	5.41	0.80	18.0		11.6	176.9	500	8.23	34.113	4.58	26.564	148.1	1.053
497	8.29	34.116	4.60	1.38	34.4		20.6	148.7	600	6.63	34.036	3.81	26.731	132.3	1.202
596	6.71	34.037	3.86	1.75	51.0		27.2	133.1	700	5.01	34.041	2.58	26.935	112.9	1.333
695	5.06	34.036	2.63	2.45	77.5		35.5	113.6	800	4.35	34.123	1.70	27.074	99.7	1.447
794	4.38	34.118	1.74	2.82	96.6		40.4	100.3	1000	3.51	34.284	0.79	27.288	79.5	1.641
943A	3.78	34.227	1.00	2.98	118.1		42.5	86.2	1200	3.02	34.384	0.80	27.413	67.5	1.804
991	3.54	34.275	0.79	3.12	125.8		43.1	80.3	1500	2.41	34.502	0.93	27.561	53.5	2.009
1143A	3.14	34.363	0.83	3.09	141.2		43.6	70.1	1750	2.18	34.549	1.22	27.618	48.1	2.157
1192	3.04	34.379	0.80	3.19	142.4		44.4	68.0	2000	1.94	34.595	1.66	27.673	42.9	2.291
1343A	2.64	34.454	0.84	3.11	157.6		44.4	59.0	2250	1.77	34.630	2.13	27.714	39.0	2.415
1542A	2.37	34.511	0.97	3.10	166.5		44.3	52.5	2500	1.63	34.646	2.51	27.736	36.9	2.532
1740A	2.19	34.547	1.21	3.10	170.2		44.2	48.4	2750	1.64	34.655	2.74	27.744	36.2	2.646
1944A	1.98	34.585	1.54	3.05	172.4		43.2	43.9	3000	1.60	34.662	2.84	27.752	35.4	2.761
2137A	1.84	34.614	1.94	2.93	174.0		42.4	40.7	3250	1.56	34.670	3.06	27.762	34.5	2.874
2336A	1.72	34.638	2.26	2.87	171.5		41.3	38.0	3500	1.52	34.676	3.25	27.770	33.7	2.987
2535A	1.64	34.646	2.56	2.82	170.0		40.7	36.8	3750	1.50	34.680	3.31	27.774	33.4	3.099
2732A	1.64	34.653	2.73	2.77	169.2		40.6	36.3	4000	1.49	34.688	3.58	27.782	32.5	3.211
2929A	1.62	34.659	2.79	2.74	168.7		40.1	35.7							
3126A	1.57	34.664		2.71	166.8		39.9	35.0							
3324A	1.56	34.673	3.13	2.67	165.6		39.6	34.2							
3522A	1.52	34.676	3.26	2.62	164.1		39.2	33.7							
3716A	1.502	34.678	3.30	2.62	162.4		38.8	33.4							
3913A	1.504	34.685	3.42	2.65	161.7		38.9	32.9							
4108A	1.466	34.691	3.67	2.54	160.5		37.8	32.2							
4154A	1.466	34.691	3.59	2.55	159.5		38.2	32.2							

RV THOMAS WASHINGTON

INDOPAC LEG I

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	LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES					
	35 01. N	173 02.5E	4/16/76	1356	1736	GMT	4793M	240	20KT						
Z	T	S	O2	P04	S103	N02	N03	DT	Z	T	S	O2	SIGT	DT	DD
1	15.84	34.616	5.81					248.4	0	15.84	34.616	5.81	25.508	248.4	0.000
11	15.78	34.616	5.61					247.1	10	15.78	34.617	5.62	25.520	247.2	0.025
22	15.77	34.621	5.74					246.5	20	15.77	34.621	5.71	25.526	246.6	0.050
32	15.80	34.619	5.66					247.3	30	15.79	34.621	5.68	25.521	247.1	0.074
51	15.78	34.620	5.70					246.8	50	15.78	34.621	5.70	25.524	246.9	0.124
61	15.80	34.622	5.73					247.1	75	15.80	34.621	5.71	25.520	247.2	0.166
77	15.80	34.620	5.70					247.2	100	15.80	34.623	5.73	25.521	247.1	0.249
91	15.80	34.622	5.70					247.1	125	15.79	34.622	5.69	25.523	247.0	0.311
101	15.80	34.622	5.73					247.1	150	15.52	34.632	5.35	25.590	240.5	0.373
126	15.79	34.621	5.69					247.0	200	14.78	34.569	5.47	25.704	229.7	0.493
145A	15.58	34.634	5.36					241.5	250	14.37	34.534	5.57	25.768	223.6	0.610
152	15.50	34.629	5.35					240.2	300	14.02	34.515	5.31	25.828	218.0	0.724
201	14.77	34.566	5.47					229.5	400	12.11	34.406	5.16	26.126	189.6	0.937
245A	14.46	34.561	5.54					223.5	500	9.86	34.242	4.64	26.403	163.3	1.124
250	14.37	34.534	5.57					223.6	600	7.03	34.043	4.25	26.682	136.9	1.283
300	14.02	34.515	5.31					218.0	700	5.19	34.034	2.85	26.910	115.2	1.418
399	12.14	34.408	5.17					190.0	800	4.44	34.101	1.89	27.047	102.3	1.534
493A	9.44	34.215	4.50					158.6	1000	3.55	34.280	0.94	27.281	80.1	1.732
497	9.95	34.249	4.65					164.1	1200	3.05	34.385	0.76	27.411	67.7	1.896
597	7.1	34.044	4.29					137.6	1500	2.47	34.501	0.87	27.555	54.1	2.103
741A	4.74	34.058	2.26					108.6	1750	2.20	34.555	1.19	27.622	47.8	2.251
793	4.47	34.093	1.91					103.1	2000	1.98	34.590	1.61	27.666	43.6	2.386
989A	3.56	34.281	0.97					80.1	2250	1.80	34.619	2.05	27.703	40.1	2.512
991	3.57	34.275	0.95					80.6	2500	1.67	34.642	2.41	27.731	37.4	2.631
1190	3.09	34.375	0.78					68.7	2750	1.58	34.653	2.69	27.747	35.9	2.746
1237A	2.90	34.418	0.67					63.9	3000	1.52	34.665	3.02	27.761	34.6	2.858
1486A	2.49	34.497	0.86					54.5	3250	1.49	34.674	3.17	27.771	33.7	2.968
1736A	2.21	34.553	1.17					48.1	3500	1.48	34.677	3.28	27.773	33.4	3.078
1984A	1.99	34.587	1.58					43.8	3750	1.47	34.682	3.38	27.778	32.9	3.188
2233A	1.61	34.616	2.02					40.3	4000	1.48	34.686	3.46	27.781	32.7	3.300
2481A	1.68	34.640	2.39					37.5	4250	1.49	34.689	3.56	27.783	32.6	3.413
2727A	1.59	34.651	2.66					36.1	4500	1.48	34.683	3.70	27.779	32.3	3.527
2975A	1.52	34.663	3.00					34.7							
3221A	1.49	34.673	3.16					33.7							
3467A	1.48	34.675	3.27					33.5							
3713A	1.47	34.681	3.37					33.0							
4203A	1.49	34.688	3.53					32.6							
4497A	1.475	34.690	3.70					32.3							
4643A	1.476	34.695	3.72					31.9							
4690A	1.479	34.694	3.76					32.1							

650						INDOPAC LEG I						660					
LATITUDE	LONGITUDE	MO/DAY/YR	START TIME			LATITUDE	LONGITUDE	MO/DAY/YR	START TIME			LATITUDE	LONGITUDE	MO/DAY/YR	START TIME		
35 00. N	174 00.3E	04/16/76	0143 GMT			35 01. N	173 02.5E	04/16/76	1222 GMT			35 01. N	173 02.5E	04/16/76	1222 GMT		
Z	T	S	SIGMA T	DT	DD	Z	T	S	SIGMA T	DT	DD	Z	T	S	SIGMA T	DT	DD
0	15.42	34.62	25.605	239.1	0.000	0	15.75	34.56	25.485	250.5	0.000	0	15.75	34.56	25.485	250.5	0.000
10	15.40	34.62	25.610	238.7	0.024	10	15.75	34.57	25.493	249.8	0.025	10	15.75	34.57	25.493	249.8	0.025
20	15.38	34.62	25.614	238.3	0.048	20	15.75	34.57	25.493	249.8	0.050	20	15.75	34.57	25.493	249.8	0.050
30	15.37	34.60	25.601	239.5	0.072	30	15.76	34.57	25.491	250.0	0.075	30	15.76	34.57	25.491	250.0	0.075
40	15.36	34.61	25.611	238.6	0.096	40	15.76	34.57	25.491	250.0	0.100	40	15.76	34.57	25.491	250.0	0.100
50	15.36	34.62	25.619	237.9	0.120	50	15.71	34.58	25.509	248.2	0.125	50	15.71	34.58	25.509	248.2	0.125
75	15.34	34.61	25.615	238.2	0.180	75	15.70	34.60	25.527	246.5	0.188	75	15.70	34.60	25.527	246.5	0.188
100	15.32	34.61	25.620	237.7	0.240	100	15.57	34.60	25.556	243.8	0.250	100	15.57	34.60	25.556	243.8	0.250
125	15.09	34.60	25.663	233.6	0.300	125	15.64	34.64	25.571	242.3	0.311	125	15.64	34.64	25.571	242.3	0.311
150	14.97	34.62	25.705	229.7	0.359	150	15.45	34.64	25.614	238.3	0.372	150	15.45	34.64	25.614	238.3	0.372
175	14.65	34.56	25.728	227.5	0.417	175	15.13	34.59	25.646	235.2	0.433	175	15.13	34.59	25.646	235.2	0.433
200	14.40	34.55	25.774	223.1	0.474	200	14.72	34.57	25.721	228.2	0.492	200	14.72	34.57	25.721	228.2	0.492
225	14.21	34.54	25.807	220.0	0.531	225	14.48	34.57	25.772	223.2	0.550	225	14.48	34.57	25.772	223.2	0.550
250	13.92	34.52	25.852	215.6	0.587	250	14.26	34.54	25.796	221.0	0.607	250	14.26	34.54	25.796	221.0	0.607
275	13.58	34.51	25.915	209.7	0.642	275	14.01	34.52	25.833	217.4	0.664	275	14.01	34.52	25.833	217.4	0.664
300	13.10	34.48	25.989	202.6	0.696	300	13.66	34.50	25.891	212.0	0.719	300	13.66	34.50	25.891	212.0	0.719
350	12.29	34.42	26.103	191.8	0.799	350	12.78	34.46	26.038	198.0	0.826	350	12.78	34.46	26.038	198.0	0.826
400	11.33	34.35	26.230	179.8	0.896	400	12.09	34.42	26.141	188.2	0.927	400	12.09	34.42	26.141	188.2	0.927
450	10.31	34.29	26.365	167.0	0.988	450	10.74	34.31	26.305	172.7	1.023	450	10.74	34.31	26.305	172.7	1.023
500	8.71	34.15	26.520	152.3	1.072	500	9.48	34.22	26.451	158.8	1.110	500	9.48	34.22	26.451	158.8	1.110
550	7.66	34.08	26.623	142.5	1.150	550	7.72	34.08	26.614	143.3	1.191	550	7.72	34.08	26.614	143.3	1.191
600	6.73	34.03	26.714	133.9	1.224	600	6.52	33.99	26.710	134.2	1.265	600	6.52	33.99	26.710	134.2	1.265
650	5.92	34.02	26.811	124.6	1.293	650	5.58	34.00	26.837	122.2	1.333	650	5.58	34.00	26.837	122.2	1.333
700	5.22	34.03	26.904	115.8	1.357	700	4.98	34.03	26.932	113.2	1.395	700	4.98	34.03	26.932	113.2	1.395
750	4.74	34.06	26.983	108.4	1.417	750	4.60	34.07	27.006	106.2	1.454	750	4.60	34.07	27.006	106.2	1.454
800	4.52	34.10	27.038	103.1	1.474	800	4.30	34.12	27.078	99.3	1.509	800	4.30	34.12	27.078	99.3	1.509
850	4.16	34.16	27.125	94.9	1.527	850	3.97	34.18	27.160	91.6	1.560	850	3.97	34.18	27.160	91.6	1.560
900	3.90	34.19	27.175	90.1	1.577	900	3.81	34.22	27.208	87.0	1.609	900	3.81	34.22	27.208	87.0	1.609
950	3.71	34.23	27.226	85.3	1.625	950	3.63	34.26	27.258	82.3	1.655	950	3.63	34.26	27.258	82.3	1.655
1000	3.55	34.27	27.274	80.8	1.670	1000	3.50	34.29	27.294	78.8	1.699	1000	3.50	34.29	27.294	78.8	1.699
1100	3.22	34.34	27.361	72.5	1.754	1100	3.17	34.35	27.373	71.3	1.782	1100	3.17	34.35	27.373	71.3	1.782
1200	2.95	34.39	27.425	66.4	1.832	1200	2.96	34.40	27.432	65.7	1.858	1200	2.96	34.40	27.432	65.7	1.858
1300	2.73	34.43	27.477	61.5	1.903	1300	2.80	34.43	27.471	62.1	1.930	1300	2.80	34.43	27.471	62.1	1.930
1400	2.58	34.47	27.522	57.3	1.971	1400	2.59	34.48	27.529	56.6	1.997	1400	2.59	34.48	27.529	56.6	1.997
1500	2.45	34.49	27.549	54.7	2.035	1500	2.46	34.50	27.556	54.0	2.060	1500	2.46	34.50	27.556	54.0	2.060
1600	2.327	34.518	27.581	51.6	2.096	1600	2.355	34.523	27.583	51.5	2.121	1600	2.355	34.523	27.583	51.5	2.121
1700	2.231	34.542	27.609	49.1	2.155	1700	2.265	34.538	27.603	49.6	2.180	1700	2.265	34.538	27.603	49.6	2.180
1800	2.143	34.558	27.628	47.2	2.211	1800	2.140	34.561	27.631	46.9	2.237	1800	2.140	34.561	27.631	46.9	2.237
1900	2.042	34.578	27.652	44.9	2.266	1900	2.040	34.579	27.653	44.8	2.291	1900	2.040	34.579	27.653	44.8	2.291
2000	1.959	34.593	27.671	43.1	2.318	2000	1.975	34.592	27.669	43.3	2.344	2000	1.975	34.592	27.669	43.3	2.344
2100	1.882	34.611	27.691	41.2	2.369	2100	1.892	34.607	27.687	41.6	2.395	2100	1.892	34.607	27.687	41.6	2.395
2200	1.829	34.620	27.703	40.1	2.418	2200	1.833	34.617	27.700	40.4	2.445	2200	1.833	34.617	27.700	40.4	2.445
2300	1.768	34.632	27.717	38.8	2.466	2300	1.744	34.628	27.716	38.9	2.493	2300	1.744	34.628	27.716	38.9	2.493
2400	1.708	34.641	27.729	37.7	2.513	2400	1.705	34.636	27.725	38.0	2.540	2400	1.705	34.636	27.725	38.0	2.540
2500	1.657	34.649	27.739	36.7	2.559	2500	1.659	34.644	27.735	37.1	2.587	2500	1.659	34.644	27.735	37.1	2.587
2600	1.642	34.652	27.742	36.4	2.605	2600	1.631	34.649	27.741	36.5	2.632	2600	1.631	34.649	27.741	36.5	2.632
2700	1.637	34.654	27.744	36.2	2.651	2700	1.596	34.656	27.749	35.7	2.678	2700	1.596	34.656	27.749	35.7	2.678
2800	1.636	34.655	27.745	36.1	2.696	2800	1.564	34.661	27.755	35.1	2.722	2800	1.564	34.661	27.755	35.1	2.722
2900	1.628	34.658	27.748	35.8	2.742	2900	1.533	34.665	27.760	34.7	2.767	2900	1.533	34.665	27.760	34.7	2.767
3000	1.617	34.660	27.751	35.6	2.788	3000	1.516	34.670	27.766	34.1	2.811	3000	1.516	34.670	27.766	34.1	2.811
3100	1.592	34.665	27.756	35.0	2.834	3100	1.509	34.674	27.770	33.8	2.854	3100	1.509	34.674	27.770	33.8	2.854
3200	1.572	34.669	27.761	34.6	2.879	3200	1.502	34.674	27.770	33.7	2.898	3200	1.502	34.674	27.770	33.7	2.898
3300	1.557	34.672	27.765	34.3	2.924	3300	1.489	34.676	27.773	33.5	2.942	3300	1.489	34.676	27.773	33.5	2.942
3400	1.549	34.674	27.767	34.0	2.969	3400	1.482	34.678	27.775	33.3	2.986	3400	1.482	34.678	27.775	33.3	2.986
3500	1.536	34.677	27.770	33.7	3.014	3500	1.475	34.680	27.777	33.1	3.030	3500	1.475	34.680	27.777	33.1	3.030
3600	1.519	34.680	27.774	33.4	3.059	3600	1.472	34.682	27.779	32.9	3.073	3600	1.472	34.682	27.779	32.9	3.073
3700	1.505	34.683	27.777	33.1	3.104	3700	1.469	34.683	27.780	32.8	3.117	3700	1.469	34.683	27.780	32.8	3.117
3800	1.498	34.685	27.779	32.9	3.149	3800	1.468	34.686	27.782	32.6	3.161	3800	1.468	34.686	27.782	32.6	3.161
3900	1.499	34.686	27.780	32.8	3.193	3900	1.470	34.685	27.781	32.7	3.206	3900	1.470	34.685	27.781	32.7	3.206
4000	1.486	34.688	27.783	32.6	3.238	4000	1.472	34.686	27.782	32.6	3.250	4000	1.472	34.686	27.782	32.6	3.250
4100	1.471	34.691	27.786	32.2	3.283	4100	1.477	34.687	27.783	32.6	3.295	4100	1.477	34.687	27.783	32.6	3.295
4200	1.461	34.693	27.788	32.0	3.327	4200	1.481	34.688	27.783	32.5	3.340	4200	1.481	34.688	27.783	32.5	3.340
						4300	1.478	34.689	27.784	32.4	3.386	4300	1.478	34.689	27.784	32.4	3.386
						4324	1.480	34.690	27.785	32.4	3.396	4324	1.480	34.690	27.785	32.4	3.396

RV THOMAS WASHINGTON

INDOPAC LEG 1

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LATITUDE		LONGITUDE		MO/DAY/YR		MESSENGER		TIME		BOTTOM		WIND		SPEED		WEATHER		DOMINANT WAVES		
34 59.7N		172 01.3E		4/17/76		0115		0227		637M		250		17KT		2		250 6 7		
Z	T	S	Q2	P04	SIG3	N02	N03	DT	Z	T	S	Q2	SIGT	DT	DD					
2	15.49	34.630	5.69	0.28	6.8	0.00	2.9	239.9	0	15.49	34.63	5.69	25.597	239.9	0.000					
11	15.47	34.629	5.71	0.29	7.0	0.28	2.8	239.5	10	15.47	34.63	5.71	25.601	239.6	0.024					
23	15.46	34.627	5.67	0.29	6.8	0.27	2.8	239.5	20	15.46	34.63	5.68	25.601	239.5	0.048					
33	15.44	34.629	5.69	0.29	6.7	0.27	2.9	238.9	30	15.45	34.63	5.68	25.606	239.1	0.072					
51	15.44	34.630	5.65	0.30	6.9	0.25	3.2	238.8	50	15.44	34.63	5.65	25.608	238.8	0.120					
77	15.42	34.631	5.60	0.31	7.0	0.25	3.4	238.3	75	15.42	34.63	5.60	25.613	238.4	0.180					
101	15.26	34.621	5.36	0.39	8.0	0.16	4.8	235.7	100	15.27	34.62	5.37	25.640	235.8	0.240					
127	14.94	34.599	5.17	0.47				230.6	125	14.96	34.60	5.17	25.691	231.0	0.299					
152	14.83	34.607	5.51	0.45	8.6	0.30	5.0	227.7	150	14.84	34.61	5.46	25.723	227.9	0.358					
202A	14.42	34.56	5.56	0.41	10.4	0.31	5.5	222.5	200	14.44	34.57	5.56	25.778	222.7	0.473					
203	14.36	34.561	5.50	0.48	9.8	0.27	5.8	221.5	250	13.76	34.51	5.23	25.880	213.0	0.585					
225A	14.18	34.55	5.41	0.47	11.1	0.19	6.5	218.9	300	12.93	34.46	5.21	26.008	200.9	0.692					
250A	13.76	34.51	5.23	0.60	13.0	0.04	8.2	213.0	400	12.46	34.43	5.18	26.076	194.4	0.899					
252	14.00	34.537	5.28	0.54	11.2	0.22	7.2	216.0	500	10.55	34.30	4.94	26.312	172.0	1.092					
274A	13.51	34.50	5.23	0.53	13.6	0.07	8.3	209.1	600	5.78	34.05	3.10	26.851	121.0	1.248					
298A	12.96	34.46	5.21	0.65	15.0	0.03	9.5	201.3												
323A	12.70	34.44	5.24	0.68	16.0	0.01	9.8	197.8												
347A	12.62	34.44	5.25	0.66	16.4	0.02	10.0	196.5												
370A	12.56	34.43	5.19	0.72	16.7	0.00	10.4	195.9												
416A	12.37	34.43	5.18	0.74	17.0	0.01	10.6	193.0												
465A	11.73	34.38	5.14	0.80	19.1	0.00	12.1	184.6												
512A	10.14	34.26	4.81	1.09	27.2	0.00	16.5	166.3												
561A	7.20	34.09	3.82	1.82	53.1	0.00	25.9	135.4												
611A	5.49	34.05	2.90	2.34	74.8	0.00	32.7	117.8												
632A	4.98	34.06	2.47	2.49	84.3	0.00	35.2	111.0												

RV THOMAS WASHINGTON

INDOPAC LEG 1

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	LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES					
	35 00. N	171 00.7E	4/17/76	0849	GMT	4346M	230	8KT	5	49					
Z	T	S	Q2	P04	SIG3	N02	N03	DT	Z	T	S	Q2	SIGT	DT	DD
0	14.60	34.531	5.95					228.5	0	14.60	34.531	5.95	25.717	228.5	0.000
10	14.54	34.532	5.93					227.2	10	14.54	34.532	5.93	25.730	227.2	0.023
31	14.46	34.545	5.91					224.7	20	14.51	34.538	5.92	25.742	226.1	0.046
50	14.29	34.549	5.89					220.9	30	14.46	34.545	5.91	25.756	224.8	0.068
76	14.00	34.533	5.47					216.3	50	14.29	34.549	5.89	25.797	220.9	0.113
100	13.65	34.503	5.47					211.6	75	14.01	34.535	5.49	25.844	216.5	0.168
125	13.15	34.459	5.66					205.1	100	13.65	34.503	5.47	25.895	211.6	0.222
150	12.82	34.443	5.67					200.0	125	13.15	34.459	5.66	25.963	205.1	0.275
175	12.59	34.434	5.81					196.4	150	12.82	34.443	5.67	26.017	200.0	0.327
200	12.34	34.417	5.80					193.0	200	12.34	34.417	5.80	26.091	193.0	0.427
250	11.67	34.381	5.09					183.5	250	11.67	34.381	5.09	26.191	183.5	0.524
300	10.51	34.292	5.06					170.1	300	10.51	34.292	5.06	26.332	170.1	0.615
399	8.70	34.154	4.58					151.8	400	8.67	34.153	4.58	26.527	151.6	0.783
498	6.36	33.999	3.95					131.5	500	6.33	34.000	3.93	26.742	131.2	0.932
597	5.26	34.043	2.77					115.3	600	5.23	34.045	2.74	26.914	114.9	1.062
695	4.46	34.084	2.05					103.7	700	4.43	34.090	2.01	27.039	103.1	1.177
793	3.99	34.169	1.42					92.6	800	3.97	34.176	1.39	27.156	92.0	1.288
892	3.75	34.258	1.13					85.1	1000	3.44	34.309	0.92	27.315	76.9	1.465
992	3.46	34.303	0.93					77.5	1200	2.99	34.386	0.78	27.419	67.0	1.624
1190	3.01	34.386	0.79					67.2							

670						INDOPAC LEG I						68					
LATITUDE		LONGITUDE		MO/DAY/YR		START TIME		LATITUDE		LONGITUDE		MO/DAY/YR		START TIME			
34 59.7N		172 01.3E		04/17/76		0020 GMT		35 00. N		171 00.7E		04/17/76		0810 GMT			
Z	T	S	SIGMA T	DT	DD	Z	T	S	SIGMA T	DT	DD	Z	T	S	SIGMA T		
0	15.46	34.64	25.612	238.5	0.000	0	14.55	34.51	25.711	229.1	0.000	0	14.55	34.51	25.711		
10	15.46	34.64	25.612	238.5	0.024	10	14.53	34.52	25.723	227.9	0.023	10	14.53	34.52	25.723		
20	15.45	34.64	25.614	238.3	0.048	20	14.50	34.53	25.737	226.6	0.046	20	14.50	34.53	25.737		
30	15.44	34.64	25.616	238.1	0.072	30	14.39	34.54	25.768	223.6	0.068	30	14.39	34.54	25.768		
40	15.43	34.64	25.618	237.9	0.096	40	14.29	34.55	25.797	220.9	0.091	40	14.29	34.55	25.797		
50	15.43	34.64	25.618	237.9	0.119	50	14.26	34.55	25.804	220.3	0.113	50	14.26	34.55	25.804		
75	15.41	34.63	25.615	236.2	0.179	75	13.99	34.53	25.845	216.3	0.168	75	13.99	34.53	25.845		
100	15.38	34.63	25.622	237.5	0.240	100	13.54	34.49	25.908	210.4	0.222	100	13.54	34.49	25.908		
125	15.02	34.61	25.686	231.4	0.299	125	13.00	34.44	25.979	203.6	0.274	125	13.00	34.44	25.979		
150	14.79	34.60	25.729	227.4	0.357	150	12.71	34.43	26.029	198.9	0.325	150	12.71	34.43	26.029		
175	14.64	34.59	25.753	225.1	0.415	175	12.54	34.43	26.062	195.7	0.376	175	12.54	34.43	26.062		
200	14.44	34.57	25.781	222.4	0.472	200	12.31	34.41	26.091	193.0	0.426	200	12.31	34.41	26.091		
225	14.14	34.54	25.821	218.6	0.529	225	11.98	34.40	26.147	187.7	0.474	225	11.98	34.40	26.147		
250	13.67	34.51	25.897	211.5	0.584	250	11.71	34.38	26.182	184.3	0.522	250	11.71	34.38	26.182		
275	13.11	34.47	25.980	203.5	0.638	275	11.12	34.34	26.260	176.9	0.569	275	11.12	34.34	26.260		
300	12.75	34.45	26.036	198.2	0.690	300	10.71	34.31	26.310	172.1	0.614	300	10.71	34.31	26.310		
350	12.47	34.42	26.068	195.2	0.793	350	9.52	34.22	26.444	159.5	0.701	350	9.52	34.22	26.444		
400	12.32	34.42	26.097	192.4	0.894	400	8.51	34.14	26.543	150.1	0.782	400	8.51	34.14	26.543		
450	11.90	34.39	26.154	187.0	0.994	450	7.38	34.06	26.648	140.2	0.858	450	7.38	34.06	26.648		
500	10.57	34.29	26.320	171.3	1.089	500	6.17	33.99	26.756	129.9	0.929	500	6.17	33.99	26.756		
550	8.27	34.14	26.580	146.6	1.174	550	5.49	33.99	26.840	121.9	0.995	550	5.49	33.99	26.840		
600	6.10	34.03	26.796	126.1	1.246	600	5.17	34.05	26.926	113.8	1.057	600	5.17	34.05	26.926		
633	4.90	34.06	26.965	110.1	1.288	650	4.74	34.05	26.973	109.1	1.116	650	4.74	34.05	26.973		
						700	4.42	34.08	27.033	103.6	1.173	700	4.42	34.08	27.033		
						750	4.16	34.14	27.109	96.4	1.226	750	4.16	34.14	27.109		
						800	3.95	34.18	27.162	91.4	1.276	800	3.95	34.18	27.162		
						850	3.82	34.22	27.207	87.1	1.325	850	3.82	34.22	27.207		
						900	3.68	34.25	27.245	83.5	1.371	900	3.68	34.25	27.245		
						950	3.51	34.28	27.285	79.7	1.415	950	3.51	34.28	27.285		
						1000	3.42	34.31	27.318	76.6	1.458	1000	3.42	34.31	27.318		
						1100	3.20	34.35	27.371	71.6	1.540	1100	3.20	34.35	27.371		
						1200	2.98	34.39	27.423	66.7	1.617	1200	2.98	34.39	27.423		

RV THOMAS WASHINGTON

INDOPAC LEG I

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LATITUDE		LONGITUDE		MO/DAY/YR		MESSENGER		TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES		
34 58.6N		170 03.5E		4/17/76		1620		2014 GMT	5454M	220	27KT		250 8 7		
Z	T	S	Q2	P04	S103	N02	N03	DT	Z	T	S	Q2	SIGT	DT	DD
0	15.87	34.582	4.990	0.14	5.7	0.23	1.3	251.5	0	15.87	34.582	4.99	25.475	251.5	0.000
10	15.86	34.579	5.60	0.14	5.6	0.25	1.4	251.5	10	15.86	34.579	5.60	25.475	251.5	0.025
30	15.86	34.607	5.70	0.11	5.5	0.28	1.4	249.5	20	15.86	34.592	5.66	25.484	250.7	0.050
50	15.83	34.629	5.74	0.13	5.4	0.32	1.7	247.2	30	15.86	34.607	5.70	25.496	249.5	0.075
60	15.84	34.632	5.48	0.11	5.3	0.34	1.8	247.2	50	15.83	34.629	5.74	25.520	247.2	0.125
75	15.83	34.632	5.71	0.12	5.2	0.36	1.9	247.0	75	15.83	34.632	5.71	25.522	247.0	0.188
90	15.78	34.648	5.61	0.16	5.1	0.37	2.9	244.8	100	15.74	34.650	5.56	25.556	243.8	0.250
99	15.74	34.648	5.56	0.17	5.0	0.40	2.9	243.9	125	15.74	34.666	5.61	25.569	242.6	0.311
125	15.74	34.666	5.61	0.21	4.9	0.29	3.2	242.6	150	15.68	34.656	5.54	25.575	242.0	0.373
149	15.68	34.655	5.56	0.20	4.8	0.26	3.7	242.1	200	15.16	34.643	4.61	25.681	231.9	0.494
197	15.21	34.646	4.60	0.35	7.6	0.03	6.1	232.8	250	14.10	34.561	5.13	25.845	216.4	0.609
247	14.17	34.566	5.11	0.53	11.0	0.02	8.5	217.3	300	13.07	34.479	5.32	25.994	202.2	0.718
294	13.17	34.485	5.34	0.62	12.2	0.13	8.7	203.6	400	11.43	34.372	4.71	26.229	179.9	0.917
392	11.58	34.382	4.72	1.04	21.5	0.02	14.9	181.9	500	9.12	34.193	4.60	26.487	155.4	1.094
487	9.50	34.226	4.63	1.35	29.9	0.00	18.7	158.5	600	6.52	34.011	4.14	26.726	132.7	1.246
581	6.9	34.019	4.40	1.85	45.5	0.00	24.7	136.9	700	5.14	34.047	2.72	26.925	113.6	1.379
674	5.41	34.029	3.00	2.40	71.6	0.00	33.1	118.1	800	4.51	34.127	2.01	27.060	101.0	1.494
767	4.65	34.099	2.18	2.72	90.6	0.00	37.4	104.5	1000	3.66	34.264	1.08	27.257	82.4	1.693
894A	4.18	34.199	1.61	2.82	106.6	0.00	39.6	92.2	1200	3.09	34.387	0.84	27.410	68.0	1.860
971	3.75	34.249	1.18	3.02	120.6	0.00	42.6	84.3	1500	2.54	34.483	0.88	27.535	56.0	2.071
1144A	3.29	34.344	0.87	3.05	138.6	0.00	43.1	72.8	1750	2.22	34.543	1.16	27.610	48.9	2.223
1174	3.17	34.371	0.85	3.16	140.4	0.00	44.0	69.7	2000	1.98	34.586	1.51	27.663	43.9	2.360
1394A	2.71	34.448	0.78	3.05	157.8	0.00	43.8	60.0	2250	1.80	34.619	1.98	27.703	40.1	2.487
1643A	2.34	34.522	1.07	3.04	169.5	0.00	43.8	51.4	2500	1.69	34.635	2.37	27.725	37.9	2.607
1893A	2.08	34.566	1.31	3.00	174.4	0.00	42.9	46.1	2750	1.61	34.649	2.68	27.742	36.4	2.723
2141A	1.87	34.607	1.79	2.93	176.5	0.00	41.6	41.4	3000	1.55	34.661	2.96	27.756	35.1	2.836
2391A	1.73	34.628	2.21	2.80	174.8	0.00	40.5	38.8	3250	1.50	34.671	3.17	27.767	33.9	2.948
2640A	1.64	34.644	2.56	2.72	171.9	0.00	39.6	37.0	3500	1.47	34.675	3.34	27.773	33.5	3.058
2889A	1.58	34.654	2.83	2.66	169.3	0.00	38.8	35.8	3750	1.46	34.681	3.48	27.778	32.9	3.169
3137A	1.52	34.668	3.10	2.62	166.9	0.00	38.2	34.3	4000	1.45	34.685	3.54	27.782	32.6	3.279
3384A	1.48	34.673	3.24	2.56	164.5	0.00	37.6	33.7	4250	1.45	34.687	3.64	27.783	32.5	3.391
3630A	1.46	34.676	3.44	2.53	162.6	0.00	37.2	33.3	4500	1.48	34.691	3.73	27.785	32.3	3.505
3876A	1.45	34.684	3.51	2.52	161.6	0.00	37.0	32.6	4750	1.48	34.693	3.87	27.787	32.2	3.619
4122A	1.45	34.685	3.57	2.50	160.3	0.00	36.7	32.5	5000	1.47	34.695	4.06	27.788	32.0	3.735
4368A	1.46	34.687	3.71	2.49	159.5	0.00	36.5	32.4	5250	1.49	34.696	4.06	27.789	32.0	3.853
4614A	1.49		3.76	2.49	157.1	0.00	36.0								
4857A	1.470	34.693	3.97	2.42	150.2	0.00	35.7	32.1							
5099A	1.477	34.695	4.10	2.40	146.5	0.00	35.4	32.0							
5294A	1.492	34.696	4.05	2.40	145.5	0.00	34.9	32.0							
5336A	1.500	34.699	4.05	2.39	145.4	0.00	35.3	31.8							

RV THOMAS WASHINGTON

INDOPAC LEG I

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LATITUDE		LONGITUDE		MO/DAY/YR		MESSENGER		TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES		
34 59.5N		168 56.9E		4/18/76		051P		GMT	5514M	230	16KT	6	230 6 6		
Z	T	S	Q2	P04	S103	N02	N03	DT	Z	T	S	Q2	SIGT	DT	DD
0	16.41	34.670	5.66					256.9	0	16.41	34.670	5.66	25.418	256.9	0.000
10	16.34	34.669	5.67					255.4	10	16.34	34.669	5.67	25.434	255.4	0.026
20	16.27	34.682	5.62					252.9	20	16.27	34.682	5.62	25.460	252.9	0.051
31	16.28	34.694	5.61					252.3	30	16.28	34.694	5.61	25.467	252.3	0.076
51	16.24	34.689	5.60					251.8	50	16.24	34.690	5.60	25.472	251.8	0.127
77	16.23	34.686	5.63					251.8	75	16.23	34.687	5.63	25.472	251.8	0.191
101	16.20	34.684	5.64					251.2	100	16.20	34.685	5.64	25.477	251.3	0.254
127	16.06	34.669	5.63					249.3	125	16.07	34.671	5.63	25.496	249.5	0.318
152	15.93	34.668	5.40					246.5	150	15.94	34.669	5.42	25.525	246.8	0.381
202	15.50	34.651	5.34					238.5	200	15.52	34.653	5.34	25.608	238.9	0.505
252	15.14	34.630	5.09					232.5	250	15.16	34.632	5.10	25.672	232.8	0.626
301	14.39	34.565	4.81					221.8	300	14.41	34.568	4.81	25.785	222.0	0.744
401	12.82	34.449	5.58					199.6	400	12.84	34.451	5.57	26.019	199.8	0.964
501	10.88	34.315	5.02					174.7	500	10.90	34.317	5.03	26.281	174.9	1.162
601	8.19	34.106	4.59					148.0	600	8.22	34.109	4.60	26.363	148.2	1.334
699	6.22	34.012	3.60					128.9	700	6.20	34.013	3.59	26.769	128.6	1.483
799	4.87	34.059	2.41					109.9	800	4.86	34.061	2.40	26.969	109.7	1.611
899	4.38	34.151	1.77					97.8	1000	3.93	34.228	1.37	27.202	88.0	1.825
998	3.93	34.220	1.37					88.2	1200	3.24	34.342	0.83	27.360	72.6	2.003
1198	3.25	34.341	0.84					72.7							

690						INDOPAC LEG I						70 2					
LATITUDE	LONGITUDE	MO/DAY/YR	START TIME			LATITUDE	LONGITUDE	MO/DAY/YR	START TIME			LATITUDE	LONGITUDE	MO/DAY/YR	START TIME		
34 58.6N	170 03.5E	04/17/76	1448 GMT			34 59.5N	168 56.9E	04/18/76	0439 GMT			34 59.5N	168 56.9E	04/18/76	0439 GMT		
Z	T	S	SIGMA T	DT	DD	Z	T	S	SIGMA T	DT	DD	Z	T	S	SIGMA T	DT	DD
0	15.85	34.54	25.447	254.2	0.000	0	16.35	34.67	25.432	255.6	0.000	0	16.35	34.67	25.432	255.6	0.000
10	15.84	34.57	25.472	251.7	0.025	10	16.33	34.67	25.437	255.1	0.026	10	16.33	34.67	25.437	255.1	0.026
20	15.82	34.60	25.500	249.1	0.050	20	16.29	34.68	25.454	253.5	0.051	20	16.29	34.68	25.454	253.5	0.051
30	15.81	34.62	25.518	247.5	0.075	30	16.25	34.70	25.478	251.2	0.076	30	16.25	34.70	25.478	251.2	0.076
40	15.81	34.64	25.533	246.0	0.100	40	16.24	34.70	25.481	251.0	0.102	40	16.24	34.70	25.481	251.0	0.102
50	15.81	34.65	25.541	245.3	0.125	50	16.23	34.70	25.483	250.7	0.127	50	16.23	34.70	25.483	250.7	0.127
75	15.77	34.66	25.557	243.7	0.186	75	16.21	34.70	25.488	250.3	0.190	75	16.21	34.70	25.488	250.3	0.190
100	15.70	34.65	25.566	242.9	0.248	100	16.20	34.69	25.482	250.8	0.253	100	16.20	34.69	25.482	250.8	0.253
125	15.70	34.66	25.573	242.2	0.309	125	16.12	34.68	25.493	249.8	0.317	125	16.12	34.68	25.493	249.8	0.317
150	15.71	34.66	25.571	242.4	0.371	150	16.02	34.68	25.516	247.6	0.380	150	16.02	34.68	25.516	247.6	0.380
175	15.67	34.66	25.580	241.5	0.433	175	15.83	34.68	25.559	243.5	0.443	175	15.83	34.68	25.559	243.5	0.443
200	15.47	34.65	25.617	238.0	0.494	200	15.65	34.67	25.592	240.4	0.504	200	15.65	34.67	25.592	240.4	0.504
225	14.81	34.60	25.724	227.6	0.554	225	15.43	34.66	25.634	236.4	0.566	225	15.43	34.66	25.634	236.4	0.566
250	14.40	34.59	25.805	220.2	0.612	250	15.12	34.64	25.687	231.3	0.626	250	15.12	34.64	25.687	231.3	0.626
275	13.76	34.54	25.901	211.0	0.667	275	14.65	34.60	25.759	224.5	0.685	275	14.65	34.60	25.759	224.5	0.685
300	12.87	34.46	26.020	199.7	0.720	300	14.31	34.57	25.809	219.8	0.742	300	14.31	34.57	25.809	219.8	0.742
350	12.39	34.41	26.076	194.4	0.825	350	13.45	34.52	25.941	207.2	0.854	350	13.45	34.52	25.941	207.2	0.854
400	11.11	34.33	26.254	177.5	0.921	400	12.77	34.45	26.032	198.6	0.960	400	12.77	34.45	26.032	198.6	0.960
450	9.87	34.24	26.401	163.5	1.010	450	11.89	34.39	26.156	186.8	1.061	450	11.89	34.39	26.156	186.8	1.061
500	8.48	34.12	26.532	151.1	1.094	500	10.71	34.31	26.310	172.1	1.157	500	10.71	34.31	26.310	172.1	1.157
550	7.34	34.05	26.645	140.4	1.171	550	9.58	34.22	26.434	160.4	1.245	550	9.58	34.22	26.434	160.4	1.245
600	6.25	33.98	26.738	131.6	1.243	600	8.23	34.11	26.562	148.3	1.328	600	8.23	34.11	26.562	148.3	1.328
650	5.62	34.01	26.840	121.9	1.311	650	6.96	34.03	26.680	137.1	1.404	650	6.96	34.03	26.680	137.1	1.404
700	5.05	34.03	26.924	114.0	1.373	700	6.25	34.02	26.769	128.6	1.476	700	6.25	34.02	26.769	128.6	1.476
750	4.72	34.07	26.993	107.4	1.433	750	5.58	34.01	26.845	121.4	1.543	750	5.58	34.01	26.845	121.4	1.543
800	4.46	34.13	27.069	100.2	1.488	800	4.89	34.06	26.966	110.0	1.605	800	4.89	34.06	26.966	110.0	1.605
850	4.26	34.17	27.122	95.2	1.541	850	4.56	34.08	27.018	105.0	1.663	850	4.56	34.08	27.018	105.0	1.663
900	3.98	34.19	27.167	90.9	1.591	900	4.37	34.15	27.074	97.8	1.718	900	4.37	34.15	27.074	97.8	1.718
950	3.78	34.23	27.219	86.0	1.640	950	4.24	34.19	27.140	93.5	1.770	950	4.24	34.19	27.140	93.5	1.770
1000	3.62	34.26	27.259	82.2	1.686	1000	3.91	34.22	27.198	88.0	1.819	1000	3.91	34.22	27.198	88.0	1.819
1100	3.35	34.32	27.335	75.2	1.772	1100	3.64	34.29	27.281	80.1	1.912	1100	3.64	34.29	27.281	80.1	1.912
1200	3.13	34.38	27.401	68.7	1.852	1200	3.25	34.34	27.358	72.8	1.997	1200	3.25	34.34	27.358	72.8	1.997
1300	2.88	34.41	27.448	64.3	1.927												
1400	2.69	34.45	27.496	59.7	1.997												
1500	2.52	34.48	27.535	56.0	2.063												
1600	2.398	34.503	27.564	53.3	2.126												
1700	2.273	34.529	27.595	50.4	2.187												
1800	2.172	34.547	27.617	48.2	2.244												
1900	2.076	34.566	27.640	46.1	2.300												
2000	1.990	34.585	27.662	44.0	2.354												
2100	1.915	34.598	27.678	42.4	2.406												
2200	1.846	34.609	27.693	41.1	2.456												
2300	1.792	34.621	27.706	39.6	2.506												
2400	1.729	34.635	27.722	38.3	2.553												
2500	1.680	34.642	27.732	37.4	2.600												
2600	1.645	34.647	27.738	36.8	2.647												
2700	1.620	34.652	27.744	36.2	2.692												
2800	1.592	34.659	27.752	35.5	2.738												
2900	1.561	34.661	27.756	35.1	2.782												
3000	1.536	34.666	27.761	34.6	2.827												
3100	1.516	34.669	27.765	34.2	2.871												
3200	1.496	34.673	27.770	33.8	2.915												
3300	1.486	34.675	27.772	33.5	2.959												
3400	1.478	34.679	27.776	33.2	3.003												
3500	1.471	34.682	27.779	32.9	3.046												
3600	1.461	34.682	27.780	32.6	3.090												
3700	1.454	34.684	27.782	32.6	3.134												
3800	1.457	34.687	27.784	32.4	3.177												
3900	1.458	34.686	27.783	32.5	3.222												
4000	1.458	34.686	27.783	32.5	3.266												
4100	1.462	34.687	27.784	32.5	3.310												
4200	1.462	34.688	27.784	32.4	3.355												
4300	1.467	34.688	27.784	32.4	3.400												
4400	1.471	34.689	27.785	32.4	3.446												
4500	1.474	34.689	27.784	32.4	3.491												
4600	1.477	34.690	27.785	32.3	3.537												
4700	1.479	34.692	27.786	32.2	3.583												
4800	1.476	34.692	27.787	32.2	3.630												
4900	1.473	34.693	27.788	32.1	3.676												
5000	1.469	34.694	27.789	32.0	3.723												
5100	1.472	34.696	27.790	31.9	3.769												
5200	1.483	34.696	27.789	31.9	3.816												
5300	1.493	34.696	27.789	32.0	3.864												
5389	1.501	34.696	27.788	32.1	3.906												

RV THOMAS WASHINGTON

INDOPAC LEG I

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LATITUDE		LONGITUDE		MO/DAY/YR		MESSENGER		TIME	POTOM	WIND	SPEED	WEATHER	DOMINANT WAVES		
34 59.4N		168 00. E		4/18/76		1210 1541		GMT	5611M	260	7KT	6	49		
Z	T	S	O2	P04	S103	N02	N03	DT	Z	T	S	O2	SIGT	DT	DD
1	15.97	34.589	5.68	0.13	4.9	0.29	1.5	253.2	0	15.97	34.589	5.68	25.457	253.2	0.000
11	15.96	34.593	5.69	0.16	4.9	0.29	1.8	252.7	10	15.96	34.594	5.69	25.462	252.7	0.025
32	15.85	34.624	5.68	0.16	4.7	0.36	1.8	248.0	20	15.91	34.607	5.69	25.483	250.8	0.051
51	15.83	34.634	5.66	0.16	4.7	0.38	1.9	246.9	30	15.86	34.622	5.68	25.507	248.5	0.076
77	15.86	34.635	5.64	0.16	4.9	0.39	2.0	247.4	50	15.83	34.635	5.66	25.524	246.9	0.125
101	15.85	34.638	5.65	0.17	5.1	0.42	2.1	247.0	75	15.86	34.636	5.64	25.518	247.4	0.188
127	15.87	34.639	5.63	0.17	4.9	0.43	1.9	247.4	100	15.85	34.639	5.65	25.522	247.0	0.250
151	15.84	34.638	5.62	0.20	4.9	0.45	2.0	246.8	125	15.87	34.640	5.63	25.519	247.3	0.313
177	15.84	34.639	5.62	0.20	4.9	0.48	2.1	246.7	150	15.84	34.639	5.62	25.524	246.8	0.376
202	15.84	34.637	5.63	0.21	4.9	0.48	2.2	246.9	200	15.84	34.638	5.63	25.524	246.8	0.502
252	15.53	34.622	5.25	0.34	6.7	0.07	4.5	241.3	250	15.55	34.624	5.27	25.579	241.6	0.627
302	15.09	34.609	5.01	0.47	8.6	0.06	6.7	233.0	300	15.11	34.611	5.02	25.666	233.4	0.750
403	13.55	34.518	4.87	0.68	13.3	0.03	9.8	208.5	400	13.61	34.522	4.87	25.919	209.3	0.981
502	11.48	34.362	4.93	0.97	19.7	0.01	13.2	181.6	500	11.52	34.366	4.93	26.206	182.1	1.188
602	9.85	34.244	5.45	1.03	22.5	0.01	14.4	162.9	600	9.88	34.247	5.45	26.404	163.2	1.373
701	7.53	34.064	4.38	1.66	42.2	0.00	22.7	141.9	700	7.55	34.067	4.39	26.627	142.1	1.537
801	5.74	34.013	3.23	2.23	66.8	0.00	30.7	123.0	800	5.76	34.014	3.24	26.826	123.2	1.681
847A	5.03	34.035	2.68	2.42	80.6	0.00	34.1	113.4	1000	4.17	34.170	1.59	27.131	94.3	1.917
899	4.66	34.075	2.21	2.66	90.6	0.00	36.4	106.4	1200	3.52	34.317	1.14	27.313	77.1	2.107
998	4.13	34.167	1.60	2.88	107.4	0.01	38.8	94.6	1500	2.68	34.455	0.87	27.501	59.3	2.338
1098A	3.78	34.279	1.35	2.91	122.0	0.00	41.0	82.3	1750	2.36	34.519	1.04	27.579	51.9	2.499
1201	3.52	34.316	1.14	2.99	130.6	0.00	41.6	77.1	2000	2.12	34.563	1.38	27.634	46.7	2.646
1349A	3.00	34.397	0.84	3.07	148.6	0.00	43.7	66.3	2250	1.92	34.596	1.74	27.675	42.6	2.780
1601A	2.54	34.483	0.83	3.00	163.2	0.01	44.0	56.0	2500	1.76	34.623	2.12	27.709	39.4	2.906
1852A	2.26	34.537	1.18	3.04	170.6	0.00	43.6	49.7	2750	1.65	34.644	2.54	27.734	37.0	3.026
2103A	2.04	34.578	1.53	2.97	174.5	0.00	42.7	44.9	3000	1.59	34.658	2.85	27.750	35.6	3.141
2355A	1.85	34.608	1.90	2.86	176.5	0.00	41.4	41.2	3250	1.53	34.668	3.06	27.763	34.4	3.254
2606A	1.71	34.633	2.29	2.77	174.7	0.00	40.2	38.3	3500	1.50	34.675	3.25	27.771	33.6	3.366
2857A	1.62	34.651	2.71	2.73	171.2	0.00	39.2	36.3	3750	1.48	34.680	3.39	27.775	33.2	3.478
3108A	1.57	34.662	2.94	2.69	168.8	0.00	38.4	35.1	4000	1.48	34.684	3.50	27.780	32.8	3.590
3357A	1.51	34.672	3.15	2.65	166.5	0.00	38.0	33.9	4250	1.47	34.687	3.59	27.783	32.5	3.703
3607A	1.49	34.676	3.31	2.57	164.4	0.00	37.4	33.5	4500	1.49	34.690	3.68	27.783	32.5	3.817
3855A	1.48	34.681	3.45	2.56	163.9	0.00	36.8	33.0	4750	1.50	34.692	3.74	27.784	32.4	3.933
4153A	1.47	34.686	3.55	2.54	160.9	0.00	36.7	32.6	5000	1.51	34.694	3.79	27.785	32.3	4.050
4400A	1.48	34.688	3.64	2.52	160.6	0.00	36.6	32.5	5250	1.51	34.695	3.99	27.786	32.3	4.170
4696A	1.50	34.691	3.74	2.50	159.2	0.00	36.3	32.4	5500	1.52	34.700	4.02	27.789	31.9	4.290
4940A	1.514	34.694	3.76	2.48	157.1	0.00	36.0	32.3							
5183A	1.514	34.693	3.91	2.44	150.6	0.00	35.5	32.4							
5377A	1.509	34.697	4.07	2.38	146.4	0.01	35.0	32.0							
5426A	1.512	34.699	4.02	2.42	145.3	0.03	35.1	31.9							

RV THOMAS WASHINGTON

INDOPAC LEG I

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LATITUDE		LONGITUDE		MO/DAY/YR		MESSENGER		TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES		
35 00.5N		167 00.9E		4/18/76		215A		GMT	5603M	280	7KT	5	260 4 6		
Z	T	S	O2	P04	SI03	N02	N03	DT	Z	T	S	O2	SI6T	DT	DD
1	16.00	34.603	5.72					252.8	0	16.00	34.603	5.72	25.461	252.8	0.000
11	15.97	34.599	5.72					252.4	10	15.97	34.600	5.72	25.465	252.5	0.025
22	15.96	34.602	5.71					252.0	20	15.96	34.603	5.71	25.469	252.1	0.051
32	15.89	34.631	5.70					248.4	30	15.90	34.626	5.70	25.500	249.1	0.076
51	15.86	34.635	5.82					247.4	50	15.86	34.636	5.81	25.517	247.5	0.126
77	15.86	34.639	5.63					247.1	75	15.86	34.640	5.65	25.521	247.2	0.188
101	15.86	34.640	5.61					247.1	100	15.86	34.641	5.61	25.522	247.1	0.250
126	15.85	34.640	5.61					246.9	125	15.85	34.641	5.61	25.524	246.9	0.313
151	15.85	34.640	5.62					246.9	150	15.85	34.641	5.62	25.524	246.9	0.376
201	15.86	34.639	5.60					247.1	200	15.86	34.640	5.60	25.521	247.1	0.502
251	15.87	34.639	5.59					247.4	250	15.87	34.640	5.59	25.519	247.4	0.629
300	15.30	34.628	4.99					236.0	300	15.30	34.628	4.99	25.638	236.0	0.754
401	13.58	34.517	4.91					209.2	400	13.60	34.519	4.91	25.918	209.4	0.986
500	11.91	34.404	4.88					186.1	500	11.91	34.404	4.88	26.163	186.1	1.196
600	9.72	34.238	5.08					161.3	600	9.72	34.238	5.08	26.425	161.3	1.381
698	7.53	34.066	4.37					141.7	700	7.49	34.065	4.35	26.635	141.4	1.544
797	5.86	34.019	3.32					124.0	800	5.82	34.021	3.29	26.823	123.6	1.688
896	4.90	34.057	2.42					110.3	1000	4.21	34.155	1.63	27.115	95.8	1.926
994	4.24	34.150	1.66					96.5	1200	3.48	34.307	0.93	27.310	77.4	2.117
1191	3.51	34.300	0.96					78.2							

71D						INDOPAC LEG 1						72					
LATITUDE		LONGITUDE		MO/DAY/YR		START TIME		LATITUDE		LONGITUDE		MO/DAY/YR		START TIME			
34 59.4N		168 00. E		04/18/76		1039 GMT		35 00.5N		167 00.9E		04/18/76		2113 GMT			
Z	T	S	SIGMA T	DT	DD	Z	T	S	SIGMA T	DT	DD	Z	T	S	SIGMA T	DT	DD
0	16.03	34.60	25.452	253.7	0.000	0	15.96	34.58	25.453	253.6	0.000	0	15.96	34.58	25.453	253.6	0.000
10	15.96	34.59	25.461	252.9	0.025	10	15.97	34.60	25.466	252.4	0.025	10	15.97	34.60	25.466	252.4	0.025
20	15.90	34.60	25.482	250.9	0.051	20	15.97	34.60	25.466	252.4	0.051	20	15.97	34.60	25.466	252.4	0.051
30	15.84	34.63	25.519	247.4	0.076	30	15.94	34.61	25.480	251.0	0.076	30	15.94	34.61	25.480	251.0	0.076
40	15.83	34.64	25.528	246.4	0.100	40	15.88	34.64	25.517	247.5	0.101	40	15.88	34.64	25.517	247.5	0.101
50	15.83	34.64	25.526	246.4	0.125	50	15.86	34.64	25.522	247.1	0.126	50	15.86	34.64	25.522	247.1	0.126
75	15.83	34.64	25.528	246.4	0.187	75	15.85	34.64	25.524	246.9	0.188	75	15.85	34.64	25.524	246.9	0.188
100	15.83	34.64	25.528	246.4	0.249	100	15.85	34.64	25.524	246.9	0.250	100	15.85	34.64	25.524	246.9	0.250
125	15.83	34.64	25.528	246.4	0.312	125	15.84	34.64	25.526	246.6	0.313	125	15.84	34.64	25.526	246.6	0.313
150	15.83	34.64	25.528	246.4	0.375	150	15.84	34.64	25.526	246.6	0.376	150	15.84	34.64	25.526	246.6	0.376
175	15.83	34.64	25.528	246.4	0.437	175	15.84	34.64	25.526	246.6	0.438	175	15.84	34.64	25.526	246.6	0.438
200	15.84	34.64	25.526	246.6	0.500	200	15.85	34.64	25.524	246.9	0.502	200	15.85	34.64	25.524	246.9	0.502
225	15.83	34.64	25.528	246.4	0.564	225	15.85	34.64	25.524	246.9	0.565	225	15.85	34.64	25.524	246.9	0.565
250	15.49	34.63	25.597	239.9	0.626	250	15.85	34.64	25.524	246.9	0.628	250	15.85	34.64	25.524	246.9	0.628
275	15.20	34.62	25.654	234.5	0.688	275	15.70	34.64	25.558	243.6	0.692	275	15.70	34.64	25.558	243.6	0.692
300	14.88	34.59	25.701	230.0	0.748	300	15.32	34.63	25.635	236.3	0.754	300	15.32	34.63	25.635	236.3	0.754
350	14.17	34.56	25.831	217.7	0.864	350	14.52	34.58	25.771	223.3	0.873	350	14.52	34.58	25.771	223.3	0.873
400	13.38	34.51	25.956	205.8	0.975	400	13.69	34.52	25.900	211.1	0.987	400	13.69	34.52	25.900	211.1	0.987
450	12.44	34.44	26.089	193.1	1.080	450	12.75	34.47	26.052	196.7	1.095	450	12.75	34.47	26.052	196.7	1.095
500	11.47	34.37	26.219	180.8	1.180	500	11.86	34.40	26.170	185.5	1.196	500	11.86	34.40	26.170	185.5	1.196
550	10.45	34.29	26.341	169.3	1.273	550	10.52	34.29	26.328	170.4	1.291	550	10.52	34.29	26.328	170.4	1.291
600	9.49	34.22	26.449	159.0	1.361	600	9.66	34.23	26.429	160.9	1.380	600	9.66	34.23	26.429	160.9	1.380
650	8.26	34.11	26.558	148.7	1.444	650	8.70	34.15	26.521	152.1	1.464	650	8.70	34.15	26.521	152.1	1.464
700	7.22	34.04	26.654	139.5	1.521	700	7.55	34.07	26.631	141.7	1.544	700	7.55	34.07	26.631	141.7	1.544
750	6.37	34.02	26.754	130.1	1.594	750	6.58	34.03	26.734	132.0	1.618	750	6.58	34.03	26.734	132.0	1.618
800	5.66	34.02	26.843	121.6	1.662	800	5.83	34.02	26.822	123.6	1.687	800	5.83	34.02	26.822	123.6	1.687
850	5.05	34.03	26.924	114.0	1.726	850	5.16	34.02	26.903	115.9	1.751	850	5.16	34.02	26.903	115.9	1.751
900	4.75	34.07	26.989	107.8	1.786	900	4.89	34.06	26.966	110.0	1.812	900	4.89	34.06	26.966	110.0	1.812
950	4.49	34.10	27.042	102.6	1.843	950	4.55	34.10	27.035	103.4	1.871	950	4.55	34.10	27.035	103.4	1.871
1000	4.21	34.15	27.111	96.2	1.897	1000	4.19	34.16	27.121	95.2	1.925	1000	4.19	34.16	27.121	95.2	1.925
1100	3.81	34.25	27.232	84.7	1.997	1100	3.83	34.23	27.214	86.5	2.025	1100	3.83	34.23	27.214	86.5	2.025
1200	3.48	34.32	27.320	76.4	2.086	1200	3.48	34.30	27.304	77.9	2.116	1200	3.48	34.30	27.304	77.9	2.116

RV THOMAS WASHINGTON

INDOPAC LEG I

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LATITUDE		LONGITUDE		MO/DAY/YR		MESSENGER		TIME	POTOM	WIND	SPEED	WEATHER	DOMINANT WAVES		
35 01.8N		166 01. E		4/19/76		0513 0925		GMT	5771M	350	11KT	2			
Z	T	S	02	P04	S103	N02	N03	DT	Z	T	S	02	SIGT	DT	DD
1	16.23	34.584	5.79	0.15	5.1	0.09	0.8	259.2	0	16.23	34.584	5.79	25.394	259.2	0.000
11	16.23	34.586	5.81	0.09	5.1	0.09	0.8	259.1	10	16.23	34.587	5.81	25.396	259.1	0.026
22	16.22	34.584	5.77	0.10	5.0	0.10	0.9	259.0	20	16.22	34.586	5.78	25.396	259.0	0.052
32	16.29	34.638	5.74	0.09	4.3	0.10	1.2	256.6	30	16.28	34.627	5.75	25.416	257.1	0.078
52	16.21	34.668	5.68	0.10	4.5	0.10	1.7	252.6	50	16.22	34.667	5.69	25.460	253.0	0.129
62	16.13	34.662	5.65	0.12	4.9	0.16	2.2	251.3	75	16.02	34.662	5.55	25.500	249.1	0.192
77	16.01	34.661	5.54	0.20	5.0	0.38	2.5	248.8	100	15.94	34.652	5.50	25.512	248.0	0.255
91	15.95	34.643	5.54	0.12	5.2	0.43	2.6	248.4	125	15.92	34.656	5.45	25.519	247.3	0.318
101	15.94	34.652	5.49	0.13	5.2	0.30	2.8	247.9	150	15.87	34.657	5.40	25.531	246.2	0.381
127	15.92	34.655	5.45	0.16	5.1	0.24	3.4	247.3	200	15.75	34.664	5.32	25.565	243.0	0.506
152	15.87	34.656	5.40	0.20	5.0	0.30	3.4	246.1	250	15.40	34.648	5.27	25.630	236.8	0.629
202	15.74	34.663	5.32	0.22	5.6	0.14	4.6	242.8	300	14.60	34.581	5.15	25.755	224.9	0.748
251	15.39	34.646	5.27	0.32	7.1	0.08	5.6	236.6	400	12.94	34.461	5.01	26.007	200.9	0.971
300	14.60	34.581	5.15	0.44	9.2	0.05	7.4	224.9	500	10.45	34.288	4.76	26.338	169.5	1.166
399	12.96	34.462	5.01	0.67	13.7	0.01	10.8	201.3	600	8.29	34.108	4.59	26.550	149.4	1.337
497	10.52	34.293	4.76	0.93	24.6	0.00	16.6	170.2	700	6.36	34.026	3.68	26.758	129.7	1.486
594	8.42	34.115	4.64	1.25	33.8	0.00	20.8	150.6	800	4.93	34.050	2.62	26.952	111.5	1.616
787	5.06	34.028	2.71	2.25	78.3	0.00	35.8	114.2	1000	3.93	34.212	1.33	27.188	88.9	1.833
975A	4.01	34.199	1.40	2.88	113.3	0.03	41.4	90.5	1200	3.92	34.351	1.07	27.360	72.6	2.012
980	4.00	34.196	1.36	2.83	112.6	0.00	42.2	90.6	1500	2.64	34.465	0.85	27.512	58.2	2.234
1172	3.35	34.341	1.06	3.04	135.1	0.00	44.3	73.6	1750	2.29	34.532	1.05	27.595	50.3	2.392
1175A	3.39	34.340	1.11	2.99	134.4	0.03	43.1	74.1	2000	2.06	34.576	1.36	27.648	45.2	2.533
1372A	2.88	34.420	0.78	3.03	152.7	0.01	45.8	63.5	2250	1.86	34.607	1.72	27.689	41.4	2.664
1570A	2.53	34.485	0.89	3.08	164.3	0.00	44.9	55.7	2500	1.73	34.630	2.28	27.718	38.5	2.787
1767A	2.27	34.533	1.07	3.09	171.3	0.00	44.5	49.9	2750	1.63	34.646	2.58	27.737	36.8	2.905
1965A	2.09	34.570	1.35	3.02	174.9	0.00	43.7	45.8	3000	1.58	34.658	2.85	27.751	35.5	3.020
2164A	1.92	34.596	1.49	2.86	176.2	0.00	42.6	42.6	3250	1.53	34.670	3.09	27.764	34.3	3.132
2362A	1.80	34.620	2.05	2.83	175.4	0.00	41.8	39.9	3500	1.50	34.675	3.27	27.770	33.7	3.244
2660A	1.66	34.641	2.47	2.86	172.8	0.00	40.3	37.3	3750	1.49	34.679	3.33	27.775	33.3	3.356
2957A	1.59	34.655	2.80	2.68	170.0	0.00	39.6	35.8	4000	1.47	34.684	3.46	27.780	32.8	3.468
3253A	1.53	34.669	2.82	2.64	163.5	0.00	38.2	34.3	4250	1.47	34.688	3.59	27.783	32.5	3.581
3548A	1.50	34.675	3.30	2.60	165.9	0.00	38.8	33.6	4500	1.48	34.690	3.64	27.784	32.5	3.695
3844A	1.48	34.680	3.35	2.58	162.0	0.00	37.6	33.1	4750	1.50	34.688	3.71	27.781	32.7	3.811
4138A	1.47	34.686	3.56	2.54	160.5	0.00	37.1	32.6	5000	1.51	34.693	3.81	27.784	32.4	3.929
4432A	1.48	34.690	3.62	2.52	159.5	0.00	36.9	32.4	5250	1.52	34.697	3.96	27.787	32.1	4.048
4724A	1.50	34.687	3.70	2.51	157.4	0.00	36.6	32.7	5500	1.52	34.698	4.06	27.787	32.1	4.169
5015A	1.514	34.693	3.82	2.49	153.2	0.00	36.2	32.4							
5306A	1.518	34.697	3.99	2.44	147.7	0.00	35.7	32.1							
5596A	1.531	34.698	2.43	144.7	0.00	35.4	32.1								
5693A	1.543	34.698	4.10	2.42	144.2	0.00	35.1	32.2							

RV THOMAS WASHINGTON

INDOPAC LEG I

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LATITUDE		LONGITUDE		MO/DAY/YR		MESSENGER		TIME	POTOM	WIND	SPEED	WEATHER	DOMINANT WAVES		
35 00.1N		165 00.4E		4/19/76		1548		GMT	5926M	350	10KT	1			
Z	T	S	02	P04	S103	N02	N03	DT	Z	T	S	02	SIGT	DT	DD
1	16.77	34.718	5.63					261.4	0	16.77	34.718	5.63	25.371	261.4	0.000
10	16.75	34.716	5.64					261.1	10	16.75	34.716	5.64	25.374	261.1	0.026
30	16.76	34.713	5.64					261.5	20	16.76	34.716	5.64	25.372	261.3	0.052
49	16.67	34.727	5.33					258.5	30	16.76	34.713	5.64	25.370	261.5	0.079
73	16.35	34.705	5.58					253.0	50	16.66	34.727	5.34	25.404	258.2	0.131
96	16.27	34.701	5.46					251.5	75	16.34	34.705	5.58	25.461	252.8	0.195
144	15.98	34.667	5.36					247.7	100	16.25	34.699	5.46	25.477	251.3	0.259
188	15.55		4.89						125	16.12	34.682	5.41	25.495	249.6	0.322
232	14.83	34.624	4.68					226.5	150	15.93	34.669	5.30	25.526	246.6	0.385
276	13.97	34.556	4.63					214.0	200	15.37	34.657	4.81	25.643	235.5	0.509
319	13.02	34.485	4.55					200.7	250	14.49	34.599	4.65	25.790	221.5	0.626
360	12.08	34.397	4.98					189.7	300	13.45	34.518	4.59	25.948	206.5	0.737
441	9.99	34.251	5.04					164.6	400	11.06	34.322	5.01	26.257	177.3	0.937
521	8.05	34.114	4.24					145.4	500	8.56	34.149	4.50	26.541	150.2	1.110
600	5.94	34.018	3.34					125.0	600	5.94	34.018	3.34	26.807	125.0	1.256
678	4.97	34.016	2.77					114.2	700	4.81	34.031	2.57	26.951	111.4	1.382
758	4.49	34.079	2.07					104.4	800	4.28	34.122	1.78	27.081	99.0	1.495
838	4.21	34.161	1.56					94.4	1000	3.59	34.296	1.16	27.290	79.3	1.688
922	3.81	34.232	1.22					86.1							
1008	3.57	34.301	1.15					78.6							

730						INDOPAC LEG I						74					
LATITUDE		LONGITUDE		MO/DAY/YR		START TIME		LATITUDE		LONGITUDE		MO/DAY/YR		START TIME			
35 01.8N		166 01. E		04/19/76		0322 GMT		35 00.1N		165 00.4E		04/19/76		1509 GMT			
Z	T	S	SIGMA T	DT	DD			Z	T	S	SIGMA T	DT	DD				
0	16.50	34.68	25.405	258.1	0.000			0	16.71	34.69	25.364	262.1	0.000				
10	16.49	34.67	25.400	258.6	0.026			10	16.72	34.70	25.369	261.6	0.026				
20	16.46	34.67	25.407	258.0	0.052			20	16.75	34.72	25.377	260.8	0.052				
30	16.38	34.68	25.433	255.5	0.077			30	16.75	34.73	25.385	260.1	0.078				
40	16.27	34.68	25.456	253.1	0.103			40	16.73	34.72	25.382	260.3	0.105				
50	16.22	34.69	25.478	251.2	0.128			50	16.67	34.73	25.404	258.3	0.131				
75	16.08	34.68	25.502	248.9	0.191			75	16.36	34.71	25.456	253.3	0.195				
100	16.05	34.69	25.517	247.5	0.254			100	16.25	34.71	25.486	250.4	0.259				
125	15.94	34.68	25.534	245.9	0.317			125	16.16	34.71	25.507	248.5	0.322				
150	15.91	34.69	25.549	244.5	0.379			150	15.98	34.69	25.533	246.0	0.385				
175	15.86	34.70	25.568	242.7	0.441			175	15.77	34.69	25.580	241.5	0.447				
200	15.62	34.68	25.607	239.0	0.503			200	15.37	34.67	25.655	234.4	0.508				
225	15.41	34.66	25.638	236.0	0.564			225	14.90	34.64	25.735	226.8	0.567				
250	15.11	34.64	25.689	231.1	0.624			250	14.41	34.60	25.810	219.6	0.625				
275	14.83	34.62	25.735	226.8	0.683			275	14.11	34.56	25.843	216.5	0.681				
300	14.45	34.59	25.794	221.2	0.741			300	13.46	34.52	25.947	206.6	0.736				
350	13.32	34.49	25.953	206.1	0.852			350	12.27	34.42	26.107	191.5	0.840				
400	12.38	34.43	26.093	192.8	0.957			400	11.08	34.34	26.267	176.2	0.936				
450	11.55	34.39	26.220	180.7	1.055			450	9.82	34.24	26.410	162.7	1.025				
500	10.64	34.31	26.323	171.0	1.149			500	8.55	34.15	26.545	149.9	1.108				
550	9.40	34.21	26.456	158.3	1.237			550	7.57	34.09	26.644	140.5	1.185				
600	7.90	34.08	26.588	145.8	1.318			600	6.20	34.04	26.791	126.5	1.256				
650	6.92	34.04	26.696	135.6	1.393			650	5.42	34.02	26.872	118.8	1.321				
700	5.93	34.02	26.810	124.8	1.463			700	4.73	34.02	26.952	111.3	1.383				
750	5.29	34.02	26.888	117.4	1.528			750	4.52	34.07	27.015	105.3	1.440				
800	4.81	34.05	26.967	109.9	1.589			800	4.32	34.11	27.068	100.3	1.496				
850	4.50	34.09	27.033	103.6	1.646			850	4.08	34.17	27.141	93.4	1.548				
900	4.29	34.15	27.103	97.0	1.701			900	3.92	34.21	27.189	88.8	1.597				
950	4.02	34.19	27.163	91.3	1.752			950	3.74	34.26	27.247	83.3	1.644				
1000	3.87	34.24	27.218	86.1	1.800			1000	3.63	34.29	27.282	80.0	1.689				
1100	3.52	34.30	27.300	78.3	1.891			1100	3.32	34.34	27.351	73.4	1.773				
1200	3.28	34.36	27.371	71.6	1.974												
1300	2.98	34.41	27.439	65.1	2.051												
1400	2.81	34.44	27.478	61.4	2.123												
1500	2.62	34.47	27.518	57.6	2.191												
1600	2.456	34.502	27.558	53.8	2.256												
1700	2.310	34.530	27.592	50.6	2.317												
1800	2.202	34.550	27.617	48.2	2.375												
1900	2.118	34.564	27.635	46.5	2.431												
2000	2.040	34.580	27.654	44.7	2.485												
2100	1.968	34.594	27.671	43.1	2.538												
2200	1.897	34.607	27.687	41.6	2.589												
2300	1.835	34.617	27.700	40.4	2.639												
2400	1.772	34.629	27.714	39.0	2.688												
2500	1.728	34.637	27.724	38.1	2.736												
2600	1.680	34.645	27.734	37.2	2.783												
2700	1.649	34.652	27.742	36.4	2.829												
2800	1.618	34.656	27.747	35.9	2.875												
2900	1.592	34.660	27.752	35.4	2.920												
3000	1.574	34.664	27.757	35.0	2.966												
3100	1.550	34.669	27.763	34.4	3.010												
3200	1.532	34.671	27.766	34.2	3.055												
3300	1.517	34.675	27.770	33.7	3.099												
3400	1.503	34.678	27.773	33.4	3.143												
3500	1.498	34.679	27.775	33.3	3.188												
3600	1.495	34.680	27.776	33.2	3.232												
3700	1.483	34.683	27.779	32.9	3.276												
3800	1.479	34.684	27.780	32.8	3.321												
3900	1.472	34.686	27.782	32.6	3.365												
4000	1.472	34.687	27.783	32.5	3.410												
4100	1.473	34.688	27.784	32.5	3.454												
4200	1.475	34.689	27.784	32.4	3.499												
4300	1.477	34.690	27.785	32.3	3.544												
4400	1.482	34.690	27.785	32.4	3.590												
4500	1.485	34.691	27.785	32.3	3.636												
4600	1.494	34.691	27.784	32.4	3.682												
4700	1.498	34.692	27.785	32.3	3.728												
4800	1.503	34.693	27.785	32.3	3.775												
4900	1.507	34.693	27.785	32.3	3.821												
5000	1.510	34.694	27.786	32.3	3.869												
5100	1.514	34.695	27.786	32.2	3.916												
5200	1.514	34.695	27.786	32.2	3.964												
5300	1.514	34.697	27.788	32.1	4.012												
5400	1.520	34.697	27.787	32.1	4.060												
5500	1.525	34.698	27.788	32.1	4.108												
5600	1.532	34.699	27.788	32.0	4.157												
5700	1.541	34.699	27.787	32.1	4.206												
5750	1.544	34.699	27.787	32.1	4.231												

RV THOMAS WASHINGTON

INDOPAC LEG I

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LATITUDE		LONGITUDE		MO/DAY/YR		MESSENGER		TIME	POTOM	WIND	SPEED	WEATHER	DOMINANT WAVES		
33 04. N		164 06. E		4/20/76		0020 0526		GMT	5966M	350	12KT	1	290 7 6		
Z	T	S	02	P04	S103	N02	N03	DT	Z	T	S	02	S1GT	DT	DD
0	15.43	34.658	5.83	0.39	8.2		2.9	236.6	0	15.43	34.658	5.83	25.632	236.6	0.000
10	15.42	34.656	5.83	0.34	8.0		3.4	236.5	10	15.42	34.656	5.83	25.633	236.5	0.024
31	15.12	34.616	5.70	0.34	8.2		4.0	233.1	20	15.04	34.656	5.77	25.650	234.9	0.047
50	14.32	34.584	5.72	0.42	9.5		5.1	219.0	30	15.15	34.622	5.71	25.667	233.3	0.071
60	14.00	34.579	5.70	0.41	9.7		5.6	212.9	50	14.32	34.584	5.72	25.817	219.0	0.116
75	13.98	34.577	5.73	0.40	9.7		5.6	212.7	75	13.98	34.577	5.73	25.884	212.7	0.171
90	13.71	34.556	5.51	0.45	10.5		7.5	208.9	100	13.52	34.535	5.48	25.946	206.8	0.224
99	13.54	34.537	5.47	0.52	11.2		8.0	206.9	125	13.13	34.478	5.86	25.982	203.3	0.276
124	13.14	34.479	5.86	0.49	11.4		6.7	203.5	150	12.81	34.440	5.83	26.016	200.1	0.327
149	12.82		5.85	0.46	12.4		7.5		200	12.24	34.414	4.84	26.107	191.5	0.427
196	12.28	34.416	4.84	0.79	18.4		12.8	192.0	250	11.17	34.334	4.85	26.247	178.2	0.522
247	11.23	34.339	4.82	0.97	22.5		14.8	178.9	300	10.04	34.231	5.24	26.364	167.0	0.612
295	10.17	34.242	5.24	0.99	23.4		14.9	168.2	400	7.49	34.031	4.60	26.607	144.0	0.773
394	7.65	34.041	4.65	1.57	39.4		22.3	145.2	500	5.48	33.949	3.64	26.809	124.9	0.914
490	5.54	33.940	3.77	2.08	62.1		30.2	126.7	600	4.88	34.063	2.43	26.968	109.8	1.037
587	4.95	34.051	2.54	2.47	83.6		36.2	111.3	700	4.37	34.133	1.81	27.079	99.2	1.148
683	4.47	34.120	1.90	2.69	97.6		39.4	101.1	800	3.86	34.205	1.37	27.190	88.7	1.249
779	3.95	34.188	1.45	2.90	113.9		41.9	90.8	1000	3.21	34.344	0.96	27.364	72.2	1.424
971	3.29	34.327	0.95	3.02	137.6		44.2	74.1	1200	2.76	34.439	1.01	27.481	61.2	1.572
1167	2.82		1.02	3.08	152.4		44.9		1500	2.33	34.526	1.10	27.588	51.0	1.762
1274A	2.64	34.465	0.99	3.03	159.4		43.2	58.1	1750	2.07	34.568	1.39	27.641	46.0	1.903
1740A	2.08	34.565	1.38	2.86	175.8		43.0	46.2	2000	1.89	34.604	1.78	27.684	41.9	2.033
2200A	1.78	34.624	2.12	2.78	175.6		40.8	39.5	2250	1.75	34.628	2.21	27.714	39.0	2.155
2430A	1.66	34.640	2.49	2.70	172.4		39.8	37.4	2500	1.64	34.644	2.58	27.735	37.0	2.272
2660A	1.61	34.652	2.75	2.69	169.8		39.2	36.1	2750	1.59	34.655	2.84	27.748	35.9	2.385
2889A	1.56	34.657	2.96	2.57	167.3		38.5	35.4	3000	1.54	34.665	3.03	27.759	34.8	2.498
3119A	1.52	34.671	3.10	2.66	165.6		38.0	34.1	3250	1.50	34.676	3.17	27.771	33.6	2.608
3348A	1.48	34.678	3.23	2.62	164.7		37.6	33.3	3500	1.48	34.679	3.31	27.775	33.3	2.718
3578A	1.44	34.678	3.35	2.57	162.5		37.4	33.3	3750	1.47	34.682	3.43	27.779	32.9	2.829
3807A	1.47	34.683	3.46	2.56	160.8		37.1	32.8	4000	1.49	34.685	3.56	27.779	32.9	2.940
4037A	1.49	34.684	3.58	2.49	158.8		36.8	32.9	4250	1.47	34.686	3.64	27.782	32.6	3.053
4268A	1.47	34.686	3.64	2.46	158.4		36.8	32.6	4500	1.47	34.690	3.69	27.785	32.4	3.167
4498A	1.47	34.689	3.69	2.51	157.4		36.4	32.4	4750	1.49	34.690	3.77	27.784	32.5	3.283
4730A	1.49	34.689	3.76	2.51	156.3		36.3	32.5	5000	1.49	34.697	3.89	27.789	32.0	3.400
4961A	1.49	34.696	3.87	2.47	150.3		35.8	32.0	5250	1.50	34.696	3.98	27.788	32.1	3.518
5195A	1.50	34.696	3.96	2.47	147.9		35.8	32.0	5500	1.52	34.696	4.04	27.786	32.3	3.638
5429A	1.51A	34.695	4.02	2.42	145.9		35.4	32.2	5750	1.54	34.697	4.11	27.785	32.3	3.761
5664A	1.537	34.696	4.08	2.42	144.9		35.3	32.3							
5806A	1.550	34.696	4.12	2.45	143.9		35.3	32.4							
5901A	1.566		4.09	2.49	142.8		35.1								

RV THOMAS WASHINGTON

INDOPAC LEG I

76

LATITUDE		LONGITUDE		MO/DAY/YR		MESSENGER		TIME	POTOM	WIND	SPEED	WEATHER	DOMINANT WAVES		
34 57.9N		162 58.4E		4/20/76		1310		GMT	5665M	350	11KT				
Z	T	S	02	P04	S103	N02	N03	DT	Z	T	S	02	S1GT	DT	DD
0	14.13	34.525	5.97					219.5	0	14.13	34.525	5.97	25.812	219.5	0.000
10	14.10	34.523	5.97					219.0	10	14.10	34.523	5.97	25.817	219.0	0.022
20	14.06	34.518	5.97					218.6	20	14.06	34.518	5.97	25.821	218.6	0.044
31	13.80	34.492	5.95					215.3	30	13.83	34.495	5.95	25.852	215.7	0.066
51	13.59	34.482	5.85					211.9	50	13.60	34.483	5.86	25.889	212.1	0.109
76	13.02	34.462	5.55					202.4	75	13.04	34.464	5.56	25.988	202.8	0.161
101	12.67	34.433	5.55					197.9	100	12.68	34.435	5.55	26.038	198.0	0.212
126	12.59	34.432	5.43					196.5	125	12.59	34.433	5.43	26.053	196.6	0.262
151	12.27	34.406	5.46					192.5	150	12.29	34.408	5.46	26.094	192.7	0.311
201	11.25	34.342	5.63					179.0	200	11.27	34.344	5.63	26.235	179.3	0.406
250	10.23	34.269	4.71					167.2	250	10.23	34.269	4.71	26.363	167.2	0.495
299	8.93	34.173	4.31					153.9	300	8.90	34.172	4.31	26.506	153.6	0.578
397	6.77	34.028	3.96					134.5	400	6.72	34.028	3.93	26.713	134.0	0.728
495	5.31	34.024	3.01					117.3	500	5.25	34.026	2.96	26.896	116.6	0.859
593	4.45	34.069	2.18					104.7	600	4.42	34.077	2.13	27.031	103.8	0.975
690	4.09	34.174	1.59					93.2	700	4.05	34.185	1.54	27.155	92.1	1.079
788	3.72	34.256	1.18					83.4	800	3.69	34.264	1.16	27.254	82.6	1.172
886	3.46	34.307	1.10					77.2	1000	3.16	34.362	0.97	27.384	70.3	1.339
984	3.19	34.356	0.97					71.1	1200	2.77	34.431	0.91	27.474	61.8	1.485
1185	2.80	34.426	0.91					62.4							

7500						INDOPAC LEG I						76					
LATITUDE		LONGITUDE		MO/DAY/YR		START TIME		LATITUDE		LONGITUDE		MO/DAY/YR		START TIME			
35 04. N		164 08. E		04/20/76		0052 GMT		34 57.9N		162 58.4E		04/20/76		1210 GMT			
Z	T	S	SIGMA T	DT	DD	Z	T	S	SIGMA T	DT	DD	Z	T	S	SIGMA T	DT	DD
0	14.97	34.61	25.697	230.4	0.000	0	14.10	34.51	25.807	220.0	0.000	0	14.10	34.51	25.807	220.0	0.000
10	14.92	34.61	25.706	229.4	0.023	10	14.10	34.52	25.814	219.2	0.022	10	14.10	34.52	25.814	219.2	0.022
20	14.63	34.59	25.755	224.9	0.046	20	14.09	34.52	25.817	219.0	0.044	20	14.09	34.52	25.817	219.0	0.044
30	14.47	34.59	25.790	221.6	0.068	30	14.01	34.49	25.810	219.6	0.066	30	14.01	34.49	25.810	219.6	0.066
40	14.39	34.59	25.807	220.0	0.090	40	13.69	34.49	25.877	213.3	0.088	40	13.69	34.49	25.877	213.3	0.088
50	14.21	34.57	25.830	217.6	0.112	50	13.58	34.49	25.900	211.2	0.109	50	13.58	34.49	25.900	211.2	0.109
75	13.56	34.51	25.919	209.3	0.166	75	13.40	34.46	25.929	208.4	0.162	75	13.40	34.46	25.929	208.4	0.162
100	13.32	34.49	25.953	206.1	0.219	100	12.76	34.44	26.027	199.1	0.213	100	12.76	34.44	26.027	199.1	0.213
125	12.92	34.46	26.010	200.7	0.270	125	12.53	34.44	26.072	194.8	0.263	125	12.53	34.44	26.072	194.8	0.263
150	12.56	34.43	26.058	196.1	0.321	150	12.36	34.42	26.089	193.1	0.313	150	12.36	34.42	26.089	193.1	0.313
175	12.22	34.42	26.116	190.6	0.370	175	11.82	34.38	26.162	186.3	0.361	175	11.82	34.38	26.162	186.3	0.361
200	11.74	34.38	26.177	184.8	0.418	200	11.45	34.35	26.208	181.9	0.408	200	11.45	34.35	26.208	181.9	0.408
225	11.22	34.35	26.250	177.9	0.465	225	11.15	34.33	26.247	178.2	0.455	225	11.15	34.33	26.247	178.2	0.455
250	10.53	34.27	26.311	172.1	0.510	250	10.63	34.30	26.317	171.5	0.500	250	10.63	34.30	26.317	171.5	0.500
275	10.00	34.24	26.379	165.6	0.554	275	9.76	34.25	26.428	161.0	0.543	275	9.76	34.25	26.428	161.0	0.543
300	9.42	34.21	26.453	158.6	0.596	300	9.33	34.22	26.475	156.5	0.584	300	9.33	34.22	26.475	156.5	0.584
350	8.23	34.10	26.554	149.0	0.675	350	7.47	34.05	26.627	142.1	0.661	350	7.47	34.05	26.627	142.1	0.661
400	6.73	33.99	26.682	136.9	0.750	400	6.54	34.01	26.723	133.0	0.733	400	6.54	34.01	26.723	133.0	0.733
450	5.68	33.96	26.794	126.3	0.819	450	5.86	34.04	26.834	122.4	0.800	450	5.86	34.04	26.834	122.4	0.800
500	5.14	33.94	26.842	121.7	0.883	500	5.24	34.03	26.902	116.1	0.862	500	5.24	34.03	26.902	116.1	0.862
550	5.02	34.04	26.935	112.9	0.945	550	4.62	34.04	26.980	108.6	0.921	550	4.62	34.04	26.980	108.6	0.921
600	4.71	34.08	27.002	106.6	1.003	600	4.33	34.08	27.043	102.7	0.977	600	4.33	34.08	27.043	102.7	0.977
650	4.47	34.12	27.060	101.1	1.058	650	4.16	34.13	27.101	97.2	1.029	650	4.16	34.13	27.101	97.2	1.029
700	4.17	34.14	27.108	96.5	1.110	700	4.06	34.18	27.151	92.4	1.080	700	4.06	34.18	27.151	92.4	1.080
750	3.92	34.20	27.181	89.6	1.160	750	3.88	34.21	27.193	88.4	1.128	750	3.88	34.21	27.193	88.4	1.128
800	3.74	34.23	27.223	85.6	1.207	800	3.72	34.25	27.241	83.9	1.175	800	3.72	34.25	27.241	83.9	1.175
850	3.64	34.28	27.273	80.9	1.252	850	3.52	34.29	27.292	79.0	1.219	850	3.52	34.29	27.292	79.0	1.219
900	3.46	34.31	27.314	77.0	1.295	900	3.41	34.31	27.319	76.5	1.261	900	3.41	34.31	27.319	76.5	1.261
950	3.28	34.33	27.347	73.6	1.336	950	3.26	34.34	27.357	72.9	1.302	950	3.26	34.34	27.357	72.9	1.302
1000	3.15	34.36	27.383	70.4	1.376	1000	3.14	34.37	27.392	69.6	1.341	1000	3.14	34.37	27.392	69.6	1.341
1100	2.92	34.41	27.444	64.6	1.450	1100	2.92	34.41	27.444	64.6	1.415	1100	2.92	34.41	27.444	64.6	1.415
1200	2.73	34.44	27.485	60.8	1.520	1200	2.76	34.44	27.482	61.0	1.485	1200	2.76	34.44	27.482	61.0	1.485
1300	2.57	34.47	27.523	57.2	1.586												
1400	2.44	34.49	27.550	54.6	1.650												
1500	2.32	34.51	27.576	52.2	1.711												
1600	2.198	34.541	27.610	48.9	1.769												
1700	2.098	34.555	27.630	47.1	1.824												
1800	2.009	34.571	27.649	45.2	1.878												
1900	1.935	34.587	27.668	43.4	1.931												
2000	1.869	34.603	27.686	41.7	1.981												
2100	1.806	34.612	27.698	40.6	2.031												
2200	1.747	34.622	27.711	39.4	2.079												
2300	1.703	34.632	27.722	38.3	2.126												
2400	1.664	34.639	27.730	37.5	2.173												
2500	1.633	34.644	27.737	36.9	2.218												
2600	1.612	34.649	27.742	36.4	2.264												
2700	1.590	34.653	27.747	35.9	2.309												
2800	1.571	34.658	27.752	35.4	2.354												
2900	1.554	34.661	27.756	35.1	2.399												
3000	1.540	34.663	27.759	34.8	2.443												
3100	1.526	34.666	27.762	34.5	2.488												
3200	1.516	34.668	27.764	34.3	2.532												
3300	1.503	34.671	27.768	34.0	2.577												
3400	1.494	34.673	27.770	33.7	2.621												
3500	1.487	34.675	27.772	33.5	2.665												
3600	1.485	34.677	27.774	33.4	2.710												
3700	1.476	34.678	27.775	33.2	2.754												
3800	1.472	34.680	27.777	33.1	2.799												
3900	1.471	34.682	27.779	32.9	2.844												
4000	1.469	34.683	27.780	32.8	2.888												
4100	1.473	34.684	27.780	32.8	2.933												
4200	1.475	34.686	27.782	32.6	2.978												
4300	1.479	34.686	27.782	32.7	3.024												
4400	1.483	34.686	27.781	32.7	3.070												
4500	1.489	34.687	27.782	32.7	3.116												
4600	1.494	34.688	27.782	32.6	3.162												
4700	1.502	34.688	27.782	32.7	3.209												
4800	1.508	34.690	27.783	32.6	3.256												
4900	1.511	34.690	27.782	32.6	3.303												
5000	1.514	34.691	27.783	32.5	3.350												
5100	1.518	34.692	27.784	32.5	3.398												
5200	1.522	34.693	27.784	32.4	3.446												
5300	1.527	34.693	27.784	32.5	3.494												
5400	1.533	34.694	27.784	32.4	3.543												
5500	1.541	34.695	27.784	32.4	3.592												
5600	1.549	34.695	27.784	32.5	3.641												
5700	1.559	34.695	27.783	32.5	3.691												
5800	1.569	34.696	27.783	32.5	3.741												
5900	1.581	34.696	27.782	32.6	3.791												

RV THOMAS WASHINGTON

INDOPAC LEG 1

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	LATITUDE		LONGITUDE		MO/DAY/YR		MESSENGER TIME		BOTTOM		WIND		SPEED		WEATHER		DOMINANT WAVES	
	34 59. N		162 04.5E		4/20/76		2040 0103 GMT		5078M		040		9KT		2		330 6 12	
Z	T	S	U2	P04	SIG3	N02	N03	DT	Z	T	S	U2	SIGT	DT	DD			
1	13.66	34.501	6.12	0.40	12.0	0.33	4.6	211.9	0	13.66	34.501	6.12	25.892	211.9	0.000			
6	13.41	34.499	6.09	0.41	12.0	0.30	4.9	207.2	10	13.39	34.498	6.11	25.945	206.8	0.021			
11	13.38	34.497	6.12	0.41	12.0	0.30	5.0	206.7	20	13.34	34.497	6.12	25.955	205.9	0.061			
22	13.33	34.497	6.12	0.42	12.0	0.30	5.1	205.8	30	13.31	34.497	6.12	25.959	205.5	0.062			
32	13.31	34.496	6.12	0.43	12.0	0.30	5.2	205.5	50	12.91	34.489	5.93	26.034	198.4	0.103			
46	12.97	34.490	5.96	0.44	12.3	0.41	6.2	199.4	75	12.51	34.452	5.75	26.085	193.6	0.152			
71	12.60	34.463	5.81	0.53	13.6	0.51	7.4	194.4	100	11.96	34.401	5.70	26.151	187.2	0.200			
90	12.15	34.410	5.62	0.64	14.9	0.32	9.2	190.0	125	11.68	34.372	5.47	26.181	184.4	0.246			
100	11.96	34.401	5.70	0.67	15.7	0.33	9.4	187.2	150	11.41	34.353	5.20	26.216	181.1	0.294			
126	11.67	34.370	5.45	0.75	17.4	0.07	11.0	184.3	200	10.89	34.321	4.89	26.286	174.5	0.385			
153	11.38	34.350	5.17	0.90	20.4	0.03	12.8	180.7	250	10.10	34.262	4.70	26.379	165.7	0.472			
201	10.68	34.319	4.89	1.02	23.4	0.00	14.8	174.4	300	9.10	34.183	4.54	26.484	155.7	0.556			
300	9.10	34.183	4.54	1.39	33.4	0.00	19.4	155.7	400	6.71	34.003	4.20	26.695	135.6	0.707			
400	6.71	34.003	4.20	1.85	49.2	0.00	25.4	135.6	500	5.60	34.056	3.15	26.878	118.3	0.840			
499	5.61	34.055	3.16	2.32	69.8	0.00	32.0	118.4	600	4.64	34.055	2.38	26.988	107.9	0.959			
599	4.65	34.053	2.39	2.58	87.5	0.00	36.5	108.0	700	4.12	34.138	1.76	27.110	96.2	1.067			
698	4.13	34.136	1.77	2.81	105.5		39.9	96.4	800	3.82	34.224	1.30	27.209	86.9	1.165			
795	3.84	34.220	1.32	2.84	117.6		41.5	87.3	1000	3.21	34.349	0.94	27.369	71.8	1.338			
991	3.23	34.344	0.95	3.09	139.8	0.00	43.7	72.3	1200	2.77	34.432	0.81	27.474	61.8	1.486			
1187	2.80	34.427	0.80	3.08	155.1	0.00	44.1	62.3	1500	2.33	34.517	1.09	27.580	51.7	1.678			
1380A	2.47	34.488	0.99	3.07	164.2	0.00	44.2	55.0	1750	2.09	34.565	1.37	27.638	46.3	1.821			
1580A	2.25	34.533	1.16	2.96	169.9		43.7	49.9	2000	1.91	34.597	1.69	27.678	42.5	1.952			
1780A	2.06	34.569	1.41	2.93	172.5		42.8	45.7	2250	1.76	34.624	2.15	27.710	39.3	2.075			
1979A	1.92	34.594	1.65	2.91	175.1		42.4	42.8	2500	1.64	34.644	2.52	27.736	36.9	2.192			
2178A	1.80	34.615	2.01	2.89	174.9		41.6	40.3	2750	1.56	34.658	2.80	27.753	35.4	2.305			
2376A	1.69	34.637	2.37	2.76	174.3		40.7	37.8	3000	1.51	34.667	3.03	27.764	34.4	2.415			
2575A	1.61	34.648	2.60	2.63	171.5		39.9	36.4	3250	1.48	34.675	3.20	27.772	33.5	2.525			
2773A	1.55	34.658	2.82	2.63	169.5		39.2	35.1	3500	1.44	34.681	3.39	27.779	32.8	2.633			
2972A	1.51	34.665	3.01	2.65	167.1		38.3	34.5	3750	1.43	34.683	3.51	27.782	32.6	2.742			
3169A	1.49	34.672	3.14	2.65	165.6		38.5	33.8	4000	1.43	34.685	3.60	27.783	32.5	2.852			
3415A	1.45	34.678	3.33	2.59	163.0		37.9	33.1	4250	1.44	34.688	3.66	27.785	32.3	2.963			
3612A	1.44	34.683	3.45	2.55	162.2		37.3	32.6	4500	1.48	34.689	3.67	27.783	32.5	3.077			
3807A	1.43	34.682	3.53	2.54	160.9		37.1	32.6	4750	1.51	34.690	3.71	27.782	32.6	3.193			
4003A	1.43	34.684	3.60	2.50	159.8		37.0	32.5	5000	1.52	34.674	3.74	27.768	32.5	3.311			
4197A	1.44	34.687	3.66	2.48	159.5		36.8	32.3										
4391A	1.46	34.687	3.67	2.48	159.1		37.0	32.4										
4583A	1.49	34.689	3.68	2.50	159.2		36.7	32.5										
4774A	1.507	34.689	3.72	2.52	158.3		36.5	32.6										
4965A	1.520	34.695	3.74	2.52	157.1		36.6	32.3										
5013A	1.520	34.690	3.75	2.53	156.7		36.5	32.6										

RV THOMAS WASHINGTON

INDOPAC LEG 1

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LATITUDE		LONGITUDE		MO/DAY/YR		MESSENGER		TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES		
35 00.5N		161 00.1E		4/21/76		0812 GMT			3739M	140	12KT	2			
Z	T	S	U2	P04	SIG3	N02	N03	DT	Z	T	S	U2	SIGT	DT	DD
0	16.59	34.690	5.78					259.4	0	16.59	34.690	5.78	25.392	259.4	0.000
10	16.58	34.688	5.79					259.3	10	16.58	34.688	5.79	25.393	259.3	0.026
20	16.55	34.689	5.79					258.6	20	16.55	34.689	5.79	25.400	258.6	0.052
30	16.50	34.705	5.69					256.3	30	16.50	34.705	5.69	25.424	256.3	0.078
50	16.29	34.708	5.61					251.5	50	16.29	34.708	5.61	25.475	251.5	0.129
80	16.02	34.675	5.62					248.0	75	16.05	34.681	5.62	25.508	248.3	0.192
98	15.99	34.682	5.57					246.8	100	15.99	34.683	5.56	25.526	246.7	0.254
123	15.92	34.684	5.47					245.2	125	15.92	34.684	5.47	25.542	245.1	0.317
148	15.83	34.673	5.45					244.0	150	15.81	34.673	5.43	25.557	243.7	0.379
197	15.20	34.630	4.95					233.7	200	15.14	34.627	4.94	25.670	232.9	0.500
244	14.23	34.556	4.84					219.2	250	14.10	34.549	4.86	25.836	217.2	0.616
291	13.13	34.494	4.99					203.1	300	12.95	34.480	4.95	26.019	199.8	0.724
386	10.50	34.310	4.37					168.6	400	10.03	34.270	4.34	26.397	164.0	0.914
478	7.55	34.077	4.18					141.2	500	6.98	34.040	4.06	26.687	136.4	1.072
571	5.53	33.978	3.49					123.2	600	5.16	33.993	3.14	26.881	118.0	1.207
661	4.64	34.049	2.43					108.2	700	4.47	34.087	2.14	27.033	103.6	1.324
752	4.31	34.137	1.83					98.2	800	4.10	34.184	1.56	27.149	92.6	1.429
845	3.90	34.225	1.36					87.5	1000	3.30	34.341	0.99	27.353	73.3	1.609
938	3.51	34.301	1.12					78.1							
1128	3.02	34.391	0.82					66.9							

770						INCOPAC LEG 1						78					
LATITUDE		LONGITUDE		MO/DAY/YR		START TIME		LATITUDE		LONGITUDE		MO/DAY/YR		START TIME			
34 59. N		162 04.5E		04/20/76		1831 GMT		35 00.5N		161 00.1E		04/21/76		0726 GMT			
Z	T	S	SIGMA T	DT	DD	Z	T	S	SIGMA T	DT	DD	Z	T	S	SIGMA T	DT	DD
0	13.43	34.46	25.907	210.4	0.000	0	16.64	34.65	25.350	263.4	0.000	0	16.64	34.65	25.350	263.4	0.000
10	13.44	34.46	25.905	210.6	0.021	10	16.62	34.68	25.377	260.8	0.026	10	16.62	34.68	25.377	260.8	0.026
20	13.42	34.45	25.902	211.0	0.042	20	16.56	34.69	25.399	258.7	0.052	20	16.56	34.69	25.399	258.7	0.052
30	13.15	34.43	25.941	207.2	0.063	30	16.52	34.70	25.416	257.1	0.078	30	16.52	34.70	25.416	257.1	0.078
40	12.83	34.41	25.989	202.6	0.084	40	16.37	34.71	25.458	253.1	0.104	40	16.37	34.71	25.458	253.1	0.104
50	12.71	34.40	26.005	201.1	0.104	50	16.16	34.68	25.484	250.7	0.129	50	16.16	34.68	25.484	250.7	0.129
75	12.50	34.39	26.039	197.9	0.154	75	16.06	34.69	25.514	247.8	0.192	75	16.06	34.69	25.514	247.8	0.192
100	12.30	34.38	26.070	195.0	0.204	100	15.98	34.69	25.533	246.0	0.254	100	15.98	34.69	25.533	246.0	0.254
125	12.06	34.35	26.093	192.6	0.253	125	15.91	34.69	25.549	244.5	0.316	125	15.91	34.69	25.549	244.5	0.316
150	11.61	34.31	26.147	187.7	0.302	150	15.79	34.68	25.568	242.6	0.378	150	15.79	34.68	25.568	242.6	0.378
175	11.25	34.29	26.198	182.9	0.349	175	15.43	34.65	25.626	237.1	0.440	175	15.43	34.65	25.626	237.1	0.440
200	10.84	34.27	26.256	177.3	0.395	200	14.92	34.62	25.715	228.6	0.499	200	14.92	34.62	25.715	228.6	0.499
225	10.45	34.24	26.302	173.0	0.440	225	14.42	34.59	25.801	220.6	0.557	225	14.42	34.59	25.801	220.6	0.557
250	9.78	34.18	26.370	166.5	0.484	250	13.85	34.54	25.882	212.8	0.613	250	13.85	34.54	25.882	212.8	0.613
275	9.46	34.15	26.399	163.7	0.526	275	13.25	34.50	25.975	204.0	0.667	275	13.25	34.50	25.975	204.0	0.667
300	8.90	34.11	26.459	158.1	0.568	300	12.81	34.48	26.047	197.1	0.719	300	12.81	34.48	26.047	197.1	0.719
350	7.68	34.01	26.565	148.0	0.647	350	11.37	34.38	26.246	178.3	0.816	350	11.37	34.38	26.246	178.3	0.816
400	7.07	34.01	26.652	139.8	0.722	400	9.66	34.25	26.444	159.4	0.905	400	9.66	34.25	26.444	159.4	0.905
450	6.47	33.99	26.717	133.6	0.793	450	8.25	34.13	26.575	147.1	0.986	450	8.25	34.13	26.575	147.1	0.986
500	5.62	33.97	26.809	124.9	0.861	500	6.68	34.00	26.697	135.5	1.060	500	6.68	34.00	26.697	135.5	1.060
550	4.82	33.96	26.894	116.8	0.925	550	5.82	33.97	26.784	127.2	1.129	550	5.82	33.97	26.784	127.2	1.129
600	4.65	34.01	26.953	111.2	0.984	600	4.95	33.97	26.888	117.4	1.194	600	4.95	33.97	26.888	117.4	1.194
650	4.44	34.06	27.015	105.3	1.042	650	4.77	34.05	26.971	109.5	1.254	650	4.77	34.05	26.971	109.5	1.254
700	4.16	34.12	27.093	97.9	1.096	700	4.51	34.09	27.032	103.7	1.310	700	4.51	34.09	27.032	103.7	1.310
750	4.02	34.18	27.155	92.1	1.146	750	4.30	34.13	27.086	98.6	1.364	750	4.30	34.13	27.086	98.6	1.364
800	3.72	34.20	27.201	87.7	1.194	800	4.02	34.17	27.147	92.8	1.416	800	4.02	34.17	27.147	92.8	1.416
850	3.61	34.24	27.244	83.6	1.241	850	3.84	34.23	27.213	86.5	1.464	850	3.84	34.23	27.213	86.5	1.464
900	3.44	34.28	27.292	79.0	1.285	900	3.68	34.26	27.253	82.8	1.510	900	3.68	34.26	27.253	82.8	1.510
950	3.30	34.30	27.321	76.3	1.327	950	3.49	34.30	27.303	78.0	1.554	950	3.49	34.30	27.303	78.0	1.554
1000	3.15	34.33	27.359	72.7	1.368	1000	3.32	34.33	27.348	74.2	1.595	1000	3.32	34.33	27.348	74.2	1.595
1100	2.95	34.37	27.409	67.9	1.445	1100	3.10	34.37	27.396	69.2	1.675	1100	3.10	34.37	27.396	69.2	1.675
1200	2.79	34.40	27.448	64.3	1.518	1166	2.96	34.40	27.432	65.7	1.724						
1300	2.62	34.43	27.486	60.6	1.588												
1400	2.46	34.46	27.524	57.1	1.654												
1500	2.34	34.49	27.558	53.8	1.717												
1600	2.252	34.511	27.582	51.6	1.778												
1700	2.131	34.536	27.612	48.7	1.836												
1800	2.044	34.553	27.632	46.8	1.892												
1900	1.979	34.567	27.649	45.2	1.946												
2000	1.904	34.579	27.664	43.8	1.998												
2100	1.840	34.592	27.679	42.3	2.050												
2200	1.766	34.605	27.696	40.8	2.100												
2300	1.715	34.614	27.706	39.6	2.148												
2400	1.670	34.624	27.718	38.7	2.196												
2500	1.640	34.630	27.725	38.0	2.243												
2600	1.609	34.636	27.732	37.3	2.290												
2700	1.582	34.642	27.739	36.7	2.336												
2800	1.559	34.647	27.745	36.2	2.381												
2900	1.539	34.651	27.749	35.7	2.426												
3000	1.523	34.657	27.755	35.2	2.471												
3100	1.497	34.661	27.760	34.7	2.516												
3200	1.476	34.667	27.767	34.1	2.560												
3300	1.464	34.670	27.770	33.8	2.604												
3400	1.457	34.672	27.772	33.6	2.648												
3500	1.449	34.675	27.775	33.3	2.692												
3600	1.442	34.678	27.778	33.0	2.736												
3700	1.437	34.679	27.779	32.9	2.779												
3800	1.438	34.682	27.781	32.7	2.823												
3900	1.438	34.683	27.782	32.6	2.867												
4000	1.438	34.685	27.784	32.4	2.911												
4100	1.444	34.686	27.784	32.4	2.956												
4200	1.452	34.686	27.783	32.5	3.000												
4300	1.462	34.687	27.784	32.5	3.045												
4400	1.468	34.687	27.783	32.5	3.091												
4500	1.479	34.688	27.783	32.5	3.137												
4600	1.486	34.688	27.783	32.6	3.183												
4700	1.497	34.689	27.783	32.6	3.229												
4800	1.503	34.688	27.781	32.7	3.276												
4900	1.513	34.690	27.782	32.6	3.323												
5000	1.520	34.693	27.784	32.4	3.371												
5064	1.522	34.694	27.785	32.3	3.401												

RV THOMAS WASHINGTON

INDOPAC LEG I

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	LATITUDE		LONGITUDE		MO/DAY/YR		MESSENGER		TIME		BOTTOM		WIND		SPEED		WEATHER		DOMINANT WAVES	
	35 02. N		160 06. E		4/21/76		1602 2253		GMT		4532M		300		12KT		2		300 5 5	
Z	T	S	O2	P04	SIG3	N02	N03	DT	Z	T	S	O2	SIGT	DT	DD					
0	15.70	34.702	5.68	0.27	8.1	0.29	1.6	239.1	0	15.70	34.702	5.68	25.605	239.1	0.000					
10	15.71	34.698	5.68	0.26	8.1	0.33	2.5	239.6	10	15.71	34.698	5.68	25.600	239.6	0.024					
19	15.70	34.697	5.68	0.28	8.1	0.33	2.3	239.5	20	15.70	34.698	5.68	25.602	239.5	0.048					
31	15.65	34.693	5.68	0.22	7.9	0.35	2.8	238.7	30	15.66	34.694	5.68	25.609	238.8	0.072					
50	15.28	34.656	5.61	0.30	8.3	0.49	3.6	233.5	50	15.28	34.656	5.61	25.664	233.5	0.119					
60	15.17	34.647	5.66	0.38	8.3	0.45	3.5	231.9	75	15.04	34.642	5.77	25.706	229.5	0.178					
75	15.04	34.642	5.77	0.30	8.3	0.43	3.3	229.5	100	14.66	34.609	5.52	25.764	224.1	0.235					
90	14.89	34.629	5.59	0.34	8.5	0.58	4.4	227.4	125	14.55	34.583	5.18	25.810	219.7	0.291					
100	14.66	34.609	5.52	0.40	8.7	0.36	5.1	224.1	150	13.79	34.537	4.93	25.891	212.0	0.346					
125	14.35	34.583	4.36	0.78	14.8	0.16	10.9	219.7	200	12.90	34.486	5.48	26.034	198.4	0.451					
151	13.77	34.534	4.92	0.67	14.5	0.01	9.7	211.7	250	12.16	34.430	5.67	26.135	188.8	0.551					
200	12.90	34.486	5.48	0.63	13.5	0.03	8.6	198.4	300	10.77	34.278	5.20	26.274	175.6	0.645					
248	12.21	34.435	5.68	0.62	14.6	0.01	8.8	189.3	400	7.85	34.063	4.65	26.582	146.4	0.813					
296	10.89	34.288	5.22	0.88	20.4	0.00	12.7	176.8	500	5.64	33.957	3.71	26.796	126.1	0.956					
393	8.04	34.076	4.70	1.52	37.3	0.00	20.8	148.1	600	4.70	34.024	2.56	26.958	110.7	1.080					
496	5.69	33.955	3.76	2.07	61.4	0.00	29.0	126.8	700	4.19	34.127	1.78	27.094	97.8	1.190					
590	4.76	34.013	2.65	2.52	83.4	0.00	35.1	112.1	800	3.87	34.221	1.30	27.202	87.6	1.290					
777	3.96	34.205	1.39	2.89	115.2	0.00	41.3	89.6	1000	3.29	34.336	1.01	27.350	73.5	1.465					
966	3.35	34.314	1.01	3.03	136.2	0.01	42.4	75.7	1200	2.86	34.417	0.94	27.455	63.6	1.617					
1031A	3.24	34.354	1.01	3.06	140.0	0.00	42.8	71.7	1500	2.59	34.501	1.04	27.562	53.4	1.815					
1157	2.90	34.405	0.88	3.07	151.0		43.6	64.8	1750	2.13	34.555	1.34	27.627	47.3	1.961					
1232A	2.83	34.424	0.99	3.05	154.2	0.00	44.0	62.8	2000	1.93	34.588	1.71	27.668	43.4	2.096					
132A	2.49	34.483	0.99	3.04	165.6	0.00	44.0	55.6	2250	1.78	34.617	2.11	27.703	40.1	2.221					
1633A	2.23	34.532	1.19	3.03	172.0	0.00	43.7	49.8	2500	1.67	34.637	2.48	27.727	37.8	2.340					
1832A	2.07	34.568	1.46	2.97	174.3	0.00	42.8	45.8	2750	1.58	34.648	2.82	27.743	36.3	2.456					
2032A	1.91	34.590	1.76	2.85	177.3	0.00	41.9	43.0	3000	1.53	34.659	3.02	27.755	35.1	2.569					
2228A	1.79	34.614	1.85	2.80	175.8	0.00	41.0	40.3	3250	1.49	34.664	3.22	27.763	34.5	2.680					
2425A	1.71	34.632	2.38	2.73	174.8	0.00	40.1	38.4	3500	1.46	34.674	3.37	27.773	33.4	2.791					
2624A	1.61	34.642	2.65	2.71	171.7	0.00	39.4	36.9	3750	1.45	34.678	3.51	27.777	33.1	2.902					
2822A	1.57	34.651	2.90	2.71	170.0	0.01	38.4	35.9	4000	1.46	34.686	3.56	27.782	32.6	3.013					
3019A	1.53	34.659	3.03	2.62	167.6	0.00	38.2	35.1	4250	1.46	34.685	3.68	27.781	32.7	3.125					
3214A	1.49	34.661	3.20	2.60	166.1	0.00	37.5	34.6	4500	1.48	34.691	3.72	27.786	32.2	3.239					
3408A	1.47	34.671	3.30	2.54	164.2	0.00	37.1	33.7												
3603A	1.45	34.676	3.44	2.55	162.8	0.00	36.7	33.2												
3799A	1.45	34.678	3.53	2.54	161.0	0.00	35.8	33.1												
3992A	1.458	34.685	3.56	2.48	160.5	0.00	36.2	32.6												
4185A	1.464	34.685	3.67	2.52	159.3	0.00	35.7	32.6												
4378A	1.466	34.683	3.70	2.51	158.1	0.00	35.3	32.8												
4474A	1.474	34.687	3.72	2.48	157.7	0.00	35.6	32.5												

RV THOMAS WASHINGTON

INDOPAC LEG I

80

LATITUDE		LONGITUDE		MO/DAY/YR		MESSENGER		TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES		
34 57.6N		158 57.7E		4/22/76		0616		GMT	4965M	170	15KT	5	49		
Z	T	S	O2	P04	SIG3	N02	N03	DT	Z	T	S	O2	SIGT	DT	DD
0	15.99	34.712	5.72					244.6	0	15.99	34.712	5.72	25.547	244.6	0.000
10	15.98	34.711	5.61					244.5	10	15.98	34.711	5.61	25.549	244.5	0.024
31	15.97	34.712	5.71					244.2	20	15.98	34.713	5.64	25.551	244.3	0.049
51	15.95	34.701	5.61					244.6	30	15.97	34.713	5.70	25.552	244.2	0.073
76	15.91	34.700	5.62					243.8	50	15.95	34.702	5.62	25.548	244.6	0.123
100	15.91	34.697	5.58					244.0	75	15.91	34.700	5.62	25.556	243.8	0.184
125	15.90	34.700	5.60					243.6	100	15.91	34.697	5.58	25.554	244.0	0.246
151	15.89	34.698	5.64					243.5	125	15.90	34.700	5.60	25.559	243.6	0.308
201	15.82	34.687	5.48					242.8	150	15.89	34.699	5.64	25.559	243.5	0.369
250	14.98	34.618	4.96					230.0	200	15.82	34.688	5.48	25.567	242.8	0.494
299	13.90	34.342	4.63					213.6	250	14.98	34.618	4.96	25.701	230.0	0.615
349	12.29	34.447	5.34					189.9	300	13.87	34.541	4.64	25.878	213.2	0.730
399	10.85	34.306	4.92					174.8	400	10.82	34.304	4.91	26.286	174.5	0.932
498	8.01	34.117	4.24					144.6	500	7.96	34.114	4.22	26.606	144.1	1.100
596	5.78	34.012	3.07					123.6	600	5.72	34.015	3.04	26.830	122.8	1.242
694	4.82	34.090	2.38					107.0	700	4.78	34.096	2.32	27.006	106.1	1.364
792	4.23	34.172	1.53					94.7	800	4.20	34.179	1.50	27.135	93.9	1.471
890	3.85	34.235	1.53					86.3	1000	3.43	34.303	1.04	27.311	77.2	1.657
986	3.47		1.05						1200	2.92	34.410	0.93	27.444	64.6	1.814
1182	2.96	34.404	0.94					65.4							

AD-A068 240

SCRIPPS INSTITUTION OF OCEANOGRAPHY LA JOLLA CALIF
PHYSICAL, CHEMICAL AND BIOLOGICAL DATA. INDOPAC EXPEDITION, LEG--ETC(U)
DEC 78

F/G 8/1

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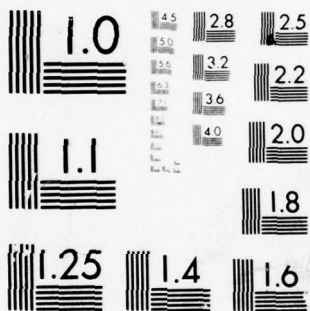
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2 OF 5

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A068240





MICROCOPY RESOLUTION TEST CHART
NATIONAL BUREAU OF STANDARDS-1963-A

790						INDOPAC LEG I						80					
LATITUDE		LONGITUDE		MO/DAY/YR		START TIME		LATITUDE		LONGITUDE		MO/DAY/YR		START TIME			
35 02. N		160 06. E		04/21/76		1408 GMT		34 57.6N		158 57.7E		04/22/76		0533 GMT			
Z	T	S	SIGMA T	DT	DC	Z	T	S	SIGMA T	DT	DD	Z	T	S	SIGMA T	DT	DD
0	15.72	34.64	25.553	244.1	0.000	0	15.97	34.71	25.550	244.3	0.000	0	15.97	34.71	25.550	244.3	0.000
10	15.73	34.69	25.589	240.6	0.024	10	15.97	34.71	25.550	244.3	0.024	10	15.97	34.71	25.550	244.3	0.024
20	15.72	34.69	25.592	240.4	0.048	20	15.97	34.72	25.558	243.6	0.049	20	15.97	34.72	25.558	243.6	0.049
30	15.67	34.68	25.595	240.1	0.072	30	15.97	34.72	25.558	243.6	0.073	30	15.97	34.72	25.558	243.6	0.073
40	15.50	34.66	25.618	237.9	0.096	40	15.96	34.72	25.556	243.8	0.098	40	15.96	34.72	25.556	243.8	0.098
50	15.38	34.65	25.637	236.1	0.120	50	15.96	34.72	25.560	243.4	0.122	50	15.96	34.72	25.560	243.4	0.122
75	15.08	34.64	25.696	230.5	0.179	75	15.90	34.71	25.566	242.8	0.184	75	15.90	34.71	25.566	242.8	0.184
100	14.74	34.61	25.747	225.7	0.237	100	15.89	34.71	25.569	242.6	0.245	100	15.89	34.71	25.569	242.6	0.245
125	14.42	34.58	25.793	221.3	0.293	125	15.89	34.71	25.569	242.6	0.306	125	15.89	34.71	25.569	242.6	0.306
150	13.82	34.53	25.881	212.9	0.349	150	15.88	34.71	25.571	242.4	0.368	150	15.88	34.71	25.571	242.4	0.368
175	13.52	34.52	25.935	207.8	0.402	175	15.88	34.70	25.568	242.7	0.430	175	15.88	34.70	25.568	242.7	0.430
200	13.06	34.49	26.005	201.1	0.455	200	15.83	34.70	25.574	242.0	0.492	200	15.83	34.70	25.574	242.0	0.492
225	12.56	34.46	26.081	193.9	0.505	225	15.55	34.67	25.615	238.2	0.554	225	15.55	34.67	25.615	238.2	0.554
250	12.26	34.43	26.116	190.6	0.555	250	14.95	34.63	25.717	228.5	0.614	250	14.95	34.63	25.717	228.5	0.614
275	11.67	34.36	26.174	185.1	0.604	275	14.34	34.58	25.810	219.7	0.672	275	14.34	34.58	25.810	219.7	0.672
300	10.71	34.28	26.287	174.4	0.650	300	13.79	34.56	25.910	210.1	0.727	300	13.79	34.56	25.910	210.1	0.727
350	9.81	34.23	26.404	163.3	0.736	350	12.16	34.44	26.143	188.0	0.831	350	12.16	34.44	26.143	188.0	0.831
400	8.39	34.10	26.538	151.3	0.820	400	10.71	34.29	26.295	173.6	0.926	400	10.71	34.29	26.295	173.6	0.926
450	7.06	34.00	26.645	140.4	0.897	450	9.30	34.18	26.449	159.0	1.014	450	9.30	34.18	26.449	159.0	1.014
500	5.98	33.96	26.756	129.9	0.968	500	8.10	34.13	26.598	144.9	1.094	500	8.10	34.13	26.598	144.9	1.094
550	5.23	33.97	26.855	120.5	1.033	550	6.93	34.06	26.710	134.2	1.168	550	6.93	34.06	26.710	134.2	1.168
600	4.74	34.03	26.959	110.7	1.094	600	5.76	34.02	26.831	122.8	1.236	600	5.76	34.02	26.831	122.8	1.236
650	4.58	34.07	27.008	106.0	1.151	650	5.08	34.03	26.920	114.3	1.299	650	5.08	34.03	26.920	114.3	1.299
700	4.43	34.12	27.064	100.7	1.206	700	4.79	34.10	27.009	105.9	1.358	700	4.79	34.10	27.009	105.9	1.358
750	4.09	34.16	27.132	94.2	1.258	750	4.46	34.14	27.077	99.5	1.413	750	4.46	34.14	27.077	99.5	1.413
800	3.92	34.20	27.181	89.6	1.308	800	4.20	34.18	27.136	93.0	1.465	800	4.20	34.18	27.136	93.0	1.465
850	3.73	34.24	27.232	84.7	1.355	850	3.99	34.20	27.174	90.3	1.514	850	3.99	34.20	27.174	90.3	1.514
900	3.61	34.27	27.268	81.4	1.400	900	3.82	34.24	27.223	85.6	1.562	900	3.82	34.24	27.223	85.6	1.562
950	3.46	34.29	27.298	78.5	1.443	950	3.61	34.27	27.268	81.4	1.607	950	3.61	34.27	27.268	81.4	1.607
1000	3.31	34.32	27.336	74.8	1.485	1000	3.45	34.32	27.323	76.1	1.651	1000	3.45	34.32	27.323	76.1	1.651
1100	3.08	34.37	27.398	69.0	1.565	1100	3.20	34.36	27.378	70.8	1.732	1100	3.20	34.36	27.378	70.8	1.732
1200	2.89	34.41	27.447	64.4	1.639	1200	2.98	34.40	27.431	65.9	1.808	1200	2.98	34.40	27.431	65.9	1.808
1300	2.70	34.44	27.487	60.5	1.709												
1400	2.53	34.47	27.526	56.9	1.775												
1500	2.38	34.50	27.563	53.4	1.838												
1600	2.258	34.526	27.594	50.5	1.898												
1700	2.158	34.547	27.618	48.1	1.955												
1800	2.070	34.566	27.641	46.0	2.011												
1900	1.991	34.577	27.656	44.6	2.064												
2000	1.926	34.589	27.670	43.2	2.116												
2100	1.856	34.603	27.687	41.6	2.167												
2200	1.803	34.613	27.699	40.5	2.217												
2300	1.743	34.623	27.712	39.3	2.265												
2400	1.697	34.631	27.721	38.3	2.313												
2500	1.657	34.640	27.732	37.4	2.359												
2600	1.621	34.646	27.739	36.7	2.405												
2700	1.591	34.652	27.746	36.0	2.451												
2800	1.566	34.656	27.751	35.5	2.496												
2900	1.547	34.659	27.755	35.2	2.541												
3000	1.533	34.663	27.759	34.8	2.585												
3100	1.510	34.666	27.763	34.4	2.629												
3200	1.496	34.669	27.767	34.1	2.674												
3300	1.477	34.672	27.770	33.7	2.718												
3400	1.471	34.674	27.772	33.5	2.761												
3500	1.460	34.676	27.775	33.3	2.805												
3600	1.454	34.677	27.776	33.2	2.849												
3700	1.450	34.679	27.778	33.0	2.893												
3800	1.451	34.679	27.778	33.0	2.938												
3900	1.452	34.681	27.780	32.9	2.982												
4000	1.454	34.681	27.779	32.9	3.027												
4100	1.456	34.683	27.781	32.7	3.071												
4200	1.457	34.684	27.782	32.7	3.116												
4300	1.461	34.685	27.782	32.6	3.162												
4400	1.466	34.684	27.781	32.7	3.207												
4500	1.471	34.685	27.781	32.7	3.253												
4519	1.473	34.684	27.780	32.8	3.262												

RV THOMAS WASHINGTON

INDOPAC LEG I

81

	LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES					
	34 59.2N	157 56. E	4/22/76	1312	1637	GMT	4437M	10U	17KT						
Z	T	S	02	P04	SIC3	N02	N03	DT	Z	T	S	02	SIGT	DT	DD
0	16.11	34.720	5.58	0.11	5.6	0.38	2.0	246.7	0	16.11	34.720	5.58	25.526	246.7	0.000
10	16.10	34.717	5.64	0.14	5.5	0.38	2.1	246.7	10	16.10	34.717	5.64	25.526	246.7	0.025
20	16.09	34.719	5.62	0.15	5.4	0.38	2.1	246.3	20	16.09	34.719	5.62	25.530	246.3	0.049
31	16.04	34.713	5.64	0.16	5.4	0.35	2.1	245.6	30	16.05	34.714	5.64	25.536	245.7	0.074
49	15.99	34.704	5.63	0.17	5.3	0.38	2.1	245.2	50	15.99	34.704	5.63	25.541	245.2	0.123
66	15.97	34.697	5.58	0.18	5.2	0.38	2.1	245.3	75	15.94	34.695	5.50	25.546	244.8	0.185
75	15.94	34.695	5.50	0.18	5.1	0.51	2.4	244.8	100	15.89	34.692	5.48	25.555	243.9	0.247
90	15.92	34.692	5.51	0.18	5.1	0.49	2.5	244.6	125	15.82	34.679	5.51	25.560	243.4	0.309
99	15.89	34.692	5.48	0.20	5.2	0.45	2.6	243.9	150	15.78	34.674	5.54	25.565	242.9	0.370
147	15.78	34.673	5.54	0.20	5.3	0.36	2.8	242.9	200	15.76	34.671	5.52	25.567	242.8	0.495
197	15.77	34.670	5.53	0.22	5.3	0.30	2.9	242.9	250	15.52	34.651	5.22	25.606	239.0	0.618
219A	15.64	34.670	5.34	0.26	7.0	0.27	1.9	240.2	300	14.77	34.596	4.89	25.729	227.4	0.739
249	15.53	34.651	5.23	0.30	7.1	0.14	5.0	239.2	400	12.53	34.453	4.49	26.081	193.9	0.959
299	14.78	34.595	4.90	0.51	9.9	0.01	8.0	227.6	500	10.03	34.230	4.96	26.366	166.8	1.150
398	12.82	34.459	4.49	0.91	18.4	0.00	13.3	195.1	600	7.17	34.048	4.10	26.666	138.3	1.312
420A	11.66	34.394	4.46	0.98	22.8	0.00	14.6	182.4	700	5.49	34.025	3.11	26.867	119.3	1.450
496	10.14	34.239	4.98	1.04	25.1	0.00	15.4	168.0	800	4.61	34.105	2.14	27.031	103.8	1.569
595	7.30	34.054	4.14	1.22	46.0	0.00	24.2	139.3	1000	3.74	34.256	1.28	27.243	83.7	1.773
669A	5.80	34.007	3.49	2.06	65.0	0.00	29.4	124.2	1200	3.10	34.375	0.93	27.399	68.9	1.942
693	5.56	34.019	3.19	2.25	69.1	0.00	31.5	120.5	1500	2.97	34.473	0.96	27.524	57.1	2.156
791	4.66	34.098	2.20	2.69	91.1	0.01	36.8	104.7	1750	2.25	34.537	1.17	27.603	49.6	2.310
917A	4.13	34.184	1.54	2.79	110.2	0.00	40.0	92.8	2000	2.03	34.580	1.54	27.654	44.7	2.450
988	3.78	34.249	1.30	2.93	120.5	0.01	41.1	84.5	2250	1.86	34.608	1.91	27.690	41.3	2.580
1169A	3.22	34.347	0.98	2.99	141.3	0.00	43.3	72.0	2500	1.75	34.631	2.27	27.716	38.8	2.703
1185	3.14	34.365	0.93	3.02	141.9	0.00	43.2	69.9	2750	1.63	34.648	2.63	27.739	36.6	2.821
1415A	2.72	34.444	0.93	3.04	158.8	0.01	44.1	60.4	3000	1.55	34.661	2.91	27.755	35.1	2.935
1661A	2.34	34.517	1.07	2.96	170.5	0.01	44.1	51.8	3250	1.51	34.670	3.16	27.766	34.1	3.046
1909A	2.11	34.565	1.39	2.94	174.5	0.01	43.2	46.4	3500	1.49	34.677	3.33	27.773	33.4	3.157
2159A	1.91	34.598	1.78	2.87	176.4	0.01	42.0	42.4	3750	1.47	34.682	3.47	27.778	33.0	3.268
2400A	1.80	34.622	2.12	2.84	175.9	0.01	41.0	39.8	4000	1.46	34.686	3.59	27.782	32.6	3.379
2645A	1.69	34.641	2.49	2.74	173.8	0.01	39.9	37.5	4250	1.48	34.691	3.62	27.785	32.3	3.491
2890A	1.58	34.657	2.80	2.66	170.5	0.01	39.0	35.5							
3135A	1.53	34.665	3.04	2.63	167.7	0.01	38.3	34.6							
3379A	1.49	34.674	3.27	2.59	164.3	0.00	37.7	33.6							
3624A	1.48	34.679	3.39	2.54	163.5	0.02	37.3	33.2							
3867A	1.46	34.683	3.54	2.52	160.5	0.02	36.8	32.8							
4109A	1.462	34.687	3.62	2.52	159.8	0.00	36.7	32.5							
4256A	1.478	34.691	3.62	2.48	160.0	0.03	36.6	32.3							
4303A	1.478	34.691	3.62	2.48	159.5	0.03	36.5	32.3							
4351A	1.492	34.693	3.65	2.47	158.8	0.00	36.6	32.2							

RV THOMAS WASHINGTON

INDOPAC LEG I

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	LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES					
	35 02.1N	156 57.3E	4/22/76	2207	GMT	5118M	06U	23KT	6	06U 5 5					
Z	T	S	02	P04	SIC3	N02	N03	DT	Z	T	S	02	SIGT	DT	DD
0	16.23	34.711	5.65					249.9	0	16.23	34.711	5.65	25.491	249.9	0.000
10	16.22	34.711	5.65					249.7	10	16.22	34.711	5.65	25.494	249.7	0.025
20	16.21	34.712	5.63					249.4	20	16.21	34.712	5.63	25.497	249.4	0.050
30	16.23	34.720	5.61					249.3	30	16.23	34.720	5.61	25.498	249.3	0.075
50	16.25	34.726	5.56					249.3	50	16.25	34.726	5.56	25.498	249.3	0.125
74	16.27	34.730	5.54					249.4	75	16.27	34.730	5.53	25.497	249.4	0.188
98	16.20	34.723	5.42					248.4	100	16.19	34.722	5.42	25.509	248.3	0.251
122	16.06	34.704	5.45					246.7	125	16.05	34.704	5.45	25.527	246.6	0.314
147	16.00	34.699	5.48					245.8	150	15.99	34.698	5.48	25.536	245.7	0.376
194	15.77	34.671	5.43					242.9	200	15.73	34.673	5.39	25.575	242.0	0.501
242	15.36	34.671	5.09					234.5	250	15.29	34.664	5.04	25.667	233.3	0.623
289	14.76	34.609	4.88					226.1	300	14.54	34.593	4.89	25.775	223.0	0.741
384	12.56	34.441	4.96					195.3	400	12.15	34.405	4.93	26.118	190.4	0.957
477	10.15	34.240	4.79					168.0	500	9.61	34.207	4.65	26.419	161.8	1.143
570	7.98	34.112	4.15					144.6	600	7.18	34.056	3.99	26.672	137.9	1.302
663	5.70	33.974	3.60					125.5	700	5.18	33.972	3.24	26.862	119.8	1.440
755	4.67	34.002	2.64					112.0	800	4.40	34.064	2.14	27.023	104.5	1.560
849	4.19	34.139	1.68					96.9	1000	3.64	34.273	1.12	27.266	81.5	1.761
944	3.83	34.229	1.29					86.5							
1137	3.23	34.346	0.92					72.2							

810						INDOPAC LEG 1						82					
LATITUDE		LONGITUDE		MO/DAY/YR		START TIME		LATITUDE		LONGITUDE		MO/DAY/YR		START TIME			
34 59.2N		157 56. E		04/22/76		1120 GMT		35 02.1N		156 57.3E		04/22/76		2111 LMT			
Z	T	S	SIGMA T	DT	DD	Z	T	S	SIGMA T	DT	DD	Z	T	S	SIGMA T		
0	16.13	34.70	25.506	246.6	0.000	0	16.21	34.70	25.488	250.3	0.000	0	16.21	34.70	25.488		
10	16.12	34.70	25.508	246.3	0.025	10	16.21	34.70	25.498	250.3	0.025	10	16.21	34.70	25.498		
20	16.12	34.71	25.516	247.6	0.050	20	16.21	34.70	25.488	250.3	0.050	20	16.21	34.70	25.488		
30	16.10	34.71	25.521	247.2	0.075	30	16.22	34.71	25.493	249.2	0.075	30	16.22	34.71	25.493		
40	16.09	34.70	25.515	247.7	0.099	40	16.22	34.71	25.493	249.8	0.100	40	16.22	34.71	25.493		
50	16.03	34.69	25.521	247.1	0.124	50	16.24	34.72	25.496	249.3	0.125	50	16.24	34.72	25.496		
75	15.97	34.69	25.535	245.8	0.186	75	16.25	34.73	25.501	249.0	0.188	75	16.25	34.73	25.501		
100	15.90	34.68	25.543	245.0	0.248	100	16.25	34.73	25.501	249.0	0.251	100	16.25	34.73	25.501		
125	15.87	34.68	25.550	244.4	0.310	125	16.09	34.71	25.523	246.9	0.314	125	16.09	34.71	25.523		
150	15.84	34.68	25.557	243.7	0.372	150	16.00	34.70	25.536	245.7	0.377	150	16.00	34.70	25.536		
175	15.78	34.67	25.563	243.2	0.435	175	15.85	34.68	25.555	243.9	0.439	175	15.85	34.68	25.555		
200	15.77	34.68	25.573	242.2	0.497	200	15.75	34.67	25.570	242.5	0.501	200	15.75	34.67	25.570		
225	15.73	34.67	25.574	242.1	0.559	225	15.51	34.66	25.616	238.1	0.563	225	15.51	34.66	25.616		
250	15.45	34.65	25.622	237.6	0.621	250	15.36	34.69	25.672	232.7	0.624	250	15.36	34.69	25.672		
275	15.04	34.61	25.682	231.9	0.681	275	14.96	34.64	25.722	228.0	0.683	275	14.96	34.64	25.722		
300	14.57	34.57	25.753	225.1	0.740	300	14.58	34.60	25.774	223.1	0.742	300	14.58	34.60	25.774		
350	13.60	34.52	25.919	209.3	0.853	350	13.26	34.51	25.980	203.5	0.853	350	13.26	34.51	25.980		
400	12.78	34.46	26.038	198.0	0.960	400	12.04	34.41	26.143	188.0	0.955	400	12.04	34.41	26.143		
450	11.32	34.35	26.231	179.6	1.060	450	10.79	34.29	26.281	175.0	1.051	450	10.79	34.29	26.281		
500	10.07	34.25	26.360	167.5	1.152	500	9.65	34.23	26.431	160.8	1.140	500	9.65	34.23	26.431		
550	9.04	34.14	26.460	158.0	1.238	550	8.42	34.14	26.557	148.8	1.222	550	8.42	34.14	26.557		
600	7.24	34.03	26.644	140.5	1.316	600	6.94	34.03	26.685	136.6	1.298	600	6.94	34.03	26.685		
650	6.07	33.99	26.769	128.7	1.390	650	5.93	34.00	26.794	126.3	1.368	650	5.93	34.00	26.794		
700	5.37	34.02	26.878	118.3	1.456	700	5.10	33.97	26.871	119.0	1.434	700	5.10	33.97	26.871		
750	4.82	34.05	26.966	110.0	1.517	750	4.61	34.00	26.949	111.5	1.495	750	4.61	34.00	26.949		
800	4.57	34.09	27.025	104.4	1.574	800	4.40	34.05	27.012	105.6	1.553	800	4.40	34.05	27.012		
850	4.37	34.13	27.078	99.3	1.629	850	4.18	34.14	27.107	96.6	1.608	850	4.18	34.14	27.107		
900	4.07	34.19	27.158	91.8	1.681	900	4.01	34.19	27.164	91.2	1.658	900	4.01	34.19	27.164		
950	3.89	34.23	27.208	87.0	1.730	950	3.71	34.24	27.234	84.6	1.706	950	3.71	34.24	27.234		
1000	3.66	34.26	27.253	82.8	1.776	1000	3.62	34.28	27.275	80.7	1.751	1000	3.62	34.28	27.275		
1100	3.32	34.32	27.335	74.9	1.863	1100	3.20	34.33	27.346	73.9	1.837	1100	3.20	34.33	27.346		
1200	3.07	34.37	27.399	69.0	1.943	1161	3.15	34.36	27.383	70.4	1.885						
1300	2.88	34.41	27.448	64.3	2.018												
1400	2.70	34.44	27.487	60.5	2.088												
1500	2.54	34.47	27.525	56.9	2.155												
1600	2.412	34.501	27.561	53.6	2.219												
1700	2.310	34.523	27.587	51.1	2.280												
1800	2.210	34.543	27.611	48.8	2.338												
1900	2.116	34.563	27.635	46.6	2.395												
2000	2.024	34.578	27.654	44.8	2.449												
2100	1.949	34.592	27.671	43.1	2.502												
2200	1.881	34.606	27.687	41.6	2.553												
2300	1.842	34.614	27.697	40.7	2.604												
2400	1.787	34.625	27.710	39.4	2.653												
2500	1.743	34.632	27.719	38.6	2.701												
2600	1.693	34.640	27.729	37.6	2.749												
2700	1.657	34.647	27.737	36.8	2.795												
2800	1.615	34.654	27.746	36.0	2.841												
2900	1.579	34.662	27.755	35.2	2.887												
3000	1.561	34.665	27.759	34.6	2.932												
3100	1.558	34.667	27.761	34.6	2.976												
3200	1.527	34.672	27.767	34.0	3.021												
3300	1.515	34.675	27.770	33.7	3.065												
3400	1.492	34.677	27.773	33.4	3.109												
3500	1.490	34.679	27.775	33.3	3.153												
3600	1.476	34.681	27.778	33.0	3.197												
3700	1.473	34.682	27.779	32.9	3.242												
3800	1.464	34.684	27.781	32.7	3.286												
3900	1.458	34.686	27.783	32.5	3.330												
4000	1.457	34.688	27.785	32.4	3.374												
4100	1.453	34.690	27.787	32.2	3.418												
4200	1.464	34.689	27.785	32.3	3.463												
4300	1.475	34.689	27.784	32.4	3.508												
4400	1.488	34.689	27.783	32.5	3.554												

RV THOMAS WASHINGTON

INDOPAC LEG I

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LATITUDE		LONGITUDE		MO/DAY/YR		MESSENGER		TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES			
35 03.3N		155 55.5E		4/23/76		0449		GMT	5471M			1				
Z	T	S	O2	P04	S103	N02	N03	DT	Z	T	S	O2	SIGT	DT	DD	
911	3.50	34.303	1.17	2.79	130.3	0.14	41.1	77.9	1000	3.24	34.354	1.05	27.369	71.7	0.000	
1161	2.85	34.427	0.92	3.02	151.9	0.07	43.0	62.8	1200	2.77	34.441	0.92	27.481	61.1	0.147	
1410	2.45	34.494	0.93	3.04	164.7	0.01	43.2	54.4	1500	2.34	34.514	0.96	27.577	52.1	0.340	
1661	2.18	34.544	1.01	2.99	171.1	0.00	42.7	48.5	1750	2.10	34.561	1.22	27.634	46.7	0.483	
1910	1.98	34.586	1.64	2.93	175.3	0.00	42.0	43.8	2000	1.92	34.597	1.79	27.676	42.6	0.615	
2160	1.83	34.613	2.02	2.79	174.4	0.00	41.1	40.7	2250	1.78	34.622	2.16	27.707	39.6	0.739	
2408	1.70	34.636	2.38	2.67	171.9	0.00	39.8	38.0	2500	1.66	34.642	2.50	27.732	37.2	0.857	
2657	1.61	34.652	2.68	2.63	170.0	0.00	39.1	36.1	2750	1.59	34.656	2.78	27.749	35.7	0.971	
2906	1.56	34.660	2.93	2.62	166.9	0.00	38.4	35.2	3000	1.55	34.664	3.01	27.758	34.9	1.083	
3154	1.53	34.667	3.12	2.56	165.8	0.00	37.8	34.5	3250	1.52	34.671	3.16	27.766	34.2	1.195	
3403	1.50	34.674	3.22	2.52	163.7	0.00	37.7	33.7	3500	1.49	34.677	3.30	27.773	33.4	1.306	
3649	1.48	34.681	3.41	2.51	163.1	0.00	37.1	33.0	3750	1.48	34.681	3.44	27.777	33.1	1.417	
3896	1.48	34.680	3.48	2.43	162.1	0.00	36.9	33.1	4000	1.48	34.682	3.52	27.778	33.0	1.529	
4143	1.48	34.684	3.57	2.50	160.6	0.00	36.6	32.8	4250	1.48	34.686	3.58	27.781	32.6	1.642	
4389	1.48	34.688	3.59	2.50	160.2	0.00	36.4	32.5	4500	1.49	34.688	3.62	27.782	32.6	1.757	
4634	1.50	34.686	3.48	2.46	158.3		36.5	32.8	4750	1.51	34.687	3.70	27.780	32.8	1.873	
4879	1.517	34.687	3.74	2.44	155.9		36.3	32.8	5000	1.52	34.690	3.74	27.781	32.8	1.992	
5123	1.531	34.691	3.73	2.45	152.5	0.07	35.8	32.6	5250	1.54	34.694	3.85	27.783	32.5	2.113	
5316	1.544	34.695	3.90	2.34	150.7	0.00	35.8	32.4								
5363	1.546	34.697	3.88	2.34	150.0	0.00	35.8	32.3								

RV THOMAS WASHINGTON

INDOPAC LEG I

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LATITUDE		LONGITUDE		MO/DAY/YR		MESSENGER		TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES			
34 59.2N		155 00.6E		4/23/76		1232		GMT	5673M							
Z	T	S	O2	P04	S103	N02	N03	DT	Z	T	S	O2	SIGT	DT	DD	
2	14.31	34.599	6.02					217.7	0	14.31	34.599	6.02	25.831	217.7	0.000	
12	14.31	34.597	6.03					217.8	10	14.31	34.599	6.03	25.830	217.8	0.022	
22	14.30	34.597	6.02					217.6	20	14.30	34.598	6.02	25.831	217.7	0.044	
31	14.12	34.572	6.00					215.8	30	14.14	34.576	6.00	25.848	216.1	0.065	
40	14.01	34.561	6.01					214.4	50	13.52	34.538	5.85	25.948	206.5	0.108	
49	13.58	34.542	5.87					207.3	75	12.64	34.474	5.95	26.076	194.4	0.158	
59	13.04	34.502	5.70					199.9	100	12.15	34.431	5.67	26.138	188.5	0.207	
72	12.70	34.478	5.95					195.2	125	11.72	34.388	5.39	26.185	180.0	0.254	
95		34.443	5.73						150	11.34	34.345	5.22	26.223	180.4	0.300	
142	11.47	34.357	5.23					181.8	200	10.34	34.227	5.21	26.310	172.2	0.391	
188	10.63	34.266	5.20					174.0	250	8.93	34.083	5.04	26.432	160.6	0.476	
234	9.42	34.115	5.24					165.7	300	7.57	34.034	4.32	26.598	144.8	0.555	
279	8.06	34.044	4.58					150.7	400	5.69	34.001	3.37	26.824	123.4	0.694	
372	6.22	34.019	3.60					126.3	500	4.43	34.015	2.55	26.979	108.7	0.815	
465	4.69	33.982	2.88					113.7	600	4.22	34.147	1.84	27.107	96.6	0.923	
558	4.24	34.088	2.06					101.1	700	3.95	34.247	1.45	27.214	86.4	1.020	
651	4.19	34.210	1.64					91.5	800	3.49	34.305	1.22	27.307	77.7	1.108	
745	3.69	34.271	1.31					82.0	1000	2.97	34.401	1.06	27.432	65.8	1.264	
938	3.12	34.375	1.11					69.0								
1139	2.69	34.442	0.98					60.3								

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INDOPAC LEG I

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 LATITUDE 35 03.3N LONGITUDE 155 55.5E
 MO/DAY/YR 04/23/76 START TIME 0245 GMT

 LATITUDE 34 59.2N LONGITUDE 155 00.6E
 MO/DAY/YR 04/23/76 START TIME 1138 GMT

Z	T	S	SIGMA T	DT	DD
0	16.00	34.68	25.520	247.2	0.000
10	16.00	34.69	25.528	246.5	0.025
20	16.00	34.69	25.528	246.5	0.049
30	15.94	34.68	25.534	245.9	0.074
40	15.49	34.64	25.605	239.1	0.098
50	15.06	34.62	25.685	231.6	0.122
75	14.64	34.60	25.761	224.3	0.180
100	14.26	34.57	25.819	218.8	0.236
125	13.88	34.54	25.876	213.4	0.290
150	13.39	34.51	25.954	206.0	0.344
175	12.95	34.48	26.020	199.8	0.396
200	12.49	34.45	26.087	193.3	0.446
225	11.88	34.41	26.173	185.1	0.495
250	11.34	34.37	26.243	178.5	0.541
275	10.50	34.31	26.347	168.6	0.586
300	9.87	34.26	26.417	162.0	0.629
350	8.37	34.10	26.533	151.0	0.711
400	7.20	34.01	26.634	141.5	0.787
450	6.68	34.03	26.721	133.2	0.859
500	5.81	34.03	26.833	122.6	0.926
550	5.08	34.04	26.928	113.6	0.988
600	4.77	34.09	27.003	106.5	1.046
650	4.43	34.13	27.072	99.9	1.101
700	4.10	34.15	27.123	95.1	1.153
750	3.97	34.21	27.184	89.3	1.202
800	3.88	34.25	27.225	85.4	1.249
850	3.71	34.28	27.266	81.5	1.294
900	3.48	34.30	27.304	77.9	1.337
950	3.38	34.33	27.338	74.7	1.379
1000	3.22	34.36	27.377	71.0	1.419
1100	3.01	34.40	27.428	66.2	1.495
1200	2.80	34.43	27.471	62.1	1.566
1300	2.63	34.46	27.509	58.4	1.634
1400	2.46	34.50	27.556	54.0	1.698
1500	2.36	34.51	27.572	52.5	1.759
1600	2.229	34.543	27.609	49.0	1.817
1700	2.155	34.559	27.628	47.2	1.873
1800	2.070	34.574	27.647	45.4	1.928
1900	1.989	34.588	27.665	43.7	1.980
2000	1.907	34.604	27.684	41.9	2.032
2100	1.863	34.612	27.694	41.0	2.081
2200	1.790	34.625	27.710	39.5	2.130
2300	1.739	34.633	27.720	38.5	2.178
2400	1.684	34.643	27.732	37.3	2.224
2500	1.666	34.647	27.737	36.9	2.270
2600	1.631	34.653	27.744	36.2	2.316
2700	1.606	34.657	27.749	35.7	2.361
2800	1.574	34.662	27.755	35.1	2.406
2900	1.559	34.666	27.760	34.7	2.450
3000	1.540	34.667	27.762	34.5	2.495
3100	1.528	34.672	27.767	34.1	2.539
3200	1.514	34.673	27.769	33.9	2.583
3300	1.501	34.676	27.772	33.6	2.627
3400	1.493	34.678	27.774	33.4	2.671
3500	1.484	34.680	27.776	33.2	2.715
3600	1.477	34.684	27.780	32.8	2.759
3700	1.472	34.682	27.779	32.9	2.803
3800	1.474	34.682	27.779	32.9	2.847
3900	1.472	34.685	27.781	32.7	2.892
4000	1.475	34.685	27.781	32.7	2.936
4100	1.477	34.684	27.780	32.8	2.981
4200	1.484	34.685	27.780	32.8	3.027
4300	1.490	34.685	27.780	32.8	3.072
4400	1.492	34.688	27.782	32.6	3.118
4500	1.496	34.688	27.782	32.6	3.164
4600	1.502	34.688	27.782	32.7	3.211
4700	1.512	34.688	27.781	32.7	3.257
4800	1.515	34.689	27.781	32.7	3.305
4900	1.518	34.690	27.782	32.6	3.352
5000	1.525	34.690	27.781	32.7	3.400
5100	1.530	34.691	27.782	32.6	3.448
5200	1.537	34.692	27.782	32.6	3.496
5300	1.542	34.693	27.783	32.6	3.545
5400	1.550	34.693	27.782	32.6	3.593

Z	T	S	SIGMA T	DT	DD
0	14.35	34.60	25.823	218.4	0.000
10	14.34	34.60	25.825	218.2	0.022
20	14.28	34.60	25.838	217.0	0.044
30	14.04	34.57	25.866	214.4	0.065
40	13.71	34.53	25.904	210.8	0.087
50	13.12	34.50	26.001	201.5	0.107
75	12.58	34.46	26.077	194.3	0.157
100	12.15	34.44	26.145	187.8	0.206
125	11.68	34.38	26.188	183.8	0.253
150	11.24	34.34	26.238	179.0	0.299
175	10.60	34.27	26.295	173.2	0.344
200	9.98	34.20	26.352	168.2	0.388
225	9.34	34.11	26.388	164.8	0.430
250	8.75	34.06	26.443	159.6	0.472
275	7.99	34.03	26.536	150.8	0.512
300	7.75	34.07	26.602	144.5	0.550
350	6.63	34.02	26.719	133.4	0.622
400	5.87	34.04	26.833	122.6	0.688
450	4.86	34.00	26.922	114.2	0.750
500	4.18	33.98	26.980	108.7	0.808
550	4.13	34.04	27.032	103.7	0.864
600	4.36	34.16	27.103	96.9	0.916
650	4.16	34.21	27.164	91.2	0.966
700	3.81	34.24	27.224	85.5	1.013
750	3.66	34.28	27.271	81.1	1.058
800	3.46	34.30	27.306	77.7	1.101
850	3.35	34.33	27.340	74.4	1.142
900	3.24	34.35	27.367	72.0	1.182
950	3.08	34.38	27.406	68.3	1.220
1000	2.95	34.40	27.433	65.6	1.257
1100	2.76	34.44	27.482	61.0	1.327
1137	2.69	34.45	27.496	59.7	1.352

RV THOMAS WASHINGTON

INDOPAC LEG 1

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LATITUDE		LONGITUDE		MO/DAY/YR		MESSENGER		TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES		
34 58.5N		153 57.8E		4/23/76		1943 2341		GMT	5820M	06U	18KT	2	060 8 8		
Z	T	S	02	P04	S103	N02	N03	DT	Z	T	S	02	SIGT	DT	DD
1	15.57	34.523	6.13	0.29	12.5	0.32	4.3	208.5	0	13.57	34.523	6.13	25.927	208.5	0.000
6	15.56	34.521	6.13	0.31	12.5	0.23	4.5	208.5	10	13.56	34.523	6.14	25.929	208.4	0.021
11	15.56	34.523	6.14	0.37	12.5	0.23	4.5	208.3	20	13.56	34.523	6.14	25.929	208.4	0.042
22	15.56	34.522	6.14	0.37	12.5	0.23	4.6	208.4	30	13.54	34.525	6.15	25.934	207.9	0.063
31	15.54	34.525	6.15	0.31	12.5	0.23	4.7	207.8	50	12.71	34.496	5.87	26.080	194.0	0.103
41	15.16	34.531	5.96	0.42	12.6	0.51	5.9	200.0	75	11.34	34.375	5.56	26.246	178.3	0.150
49	12.77	34.501	5.88	0.42	13.8	0.67	6.5	194.8	100	10.94	34.327	5.46	26.281	174.9	0.195
74	11.37	34.377	5.57	0.65	17.5		10.3	178.5	125	10.47	34.271	5.33	26.322	171.0	0.239
99	10.96	34.328	5.46	0.71	18.8	0.00	11.2	175.1	150	10.04	34.223	5.20	26.358	167.6	0.282
125	10.47	34.271	5.35	0.82	21.2	0.00	12.5	171.0	200	9.10	34.155	4.63	26.461	157.9	0.365
149	10.06	34.223	5.21	0.88	23.4	0.00	13.5	167.8	250	8.10	34.063	4.70	26.544	149.9	0.444
199	7.12	34.156	4.63	1.27	32.3	0.00	18.0	158.0	300	6.93	34.032	4.02	26.687	136.4	0.518
247	5.17	34.065	4.75	1.41	36.1	0.00	19.3	150.7	400	5.79	34.049	3.21	26.850	121.0	0.651
295	7.02	34.033	4.07	1.78	49.2	0.00	24.7	137.4	500	5.16	34.177	2.19	27.026	104.3	0.769
395	5.82	34.041	3.26	2.26	67.8		30.5	121.9	600	4.21	34.199	1.65	27.149	92.6	0.873
495	5.23	34.173	2.24	2.63	89.1	0.00	35.4	105.2	700	3.71	34.254	1.34	27.245	83.5	0.967
592	4.26	34.194	1.68	2.85	107.1	0.00	39.2	93.4	800	3.43	34.311	1.18	27.317	76.7	1.053
789	3.46	34.307	1.19	3.00	131.5	0.00	41.9	77.2	1000	2.96	34.408	1.05	27.438	65.1	1.207
983A	3.04	34.386	0.99	3.07	146.4	0.03	42.5	67.5	1200	2.56	34.471	0.91	27.524	57.0	1.343
984	2.97	34.405	1.06	3.01	147.6	0.00	42.9	65.4	1500	2.24	34.535	1.26	27.602	49.7	1.524
1165A	2.66	34.452	0.91	3.05	159.5	0.07	43.6	59.3	1750	2.02	34.576	1.59	27.651	45.0	1.661
1178	2.58	34.465	0.90	3.07	161.6	0.00	43.6	57.6	2000	1.84	34.610	1.95	27.694	41.0	1.789
1370A	2.17	34.513	1.16	3.09	166.5	0.00	43.2	52.3	2250	1.71	34.627	2.38	27.717	38.8	1.909
1573A	2.17	34.545	1.32	2.98	170.9	0.00	42.9	48.4	2500	1.62	34.643	2.69	27.736	36.9	2.024
1777A	2.00	34.579	1.63	2.98	173.1	0.00	42.4	44.5	2750	1.57	34.654	2.90	27.749	35.7	2.137
1978A	1.85	34.608	1.91	2.89	173.0	0.00	41.3	41.2	3000	1.53	34.663	3.08	27.759	34.8	2.249
2180A	1.74	34.621	2.27	2.83	172.6	0.00	40.4	39.4	3250	1.49	34.669	3.28	27.767	34.0	2.360
2381A	1.66	34.637	2.56	2.71	170.1	0.00	39.6	37.6	3500	1.45	34.675	3.37	27.775	33.3	2.470
2681A	1.58	34.651	2.85	2.71	167.5		38.6	36.0	3750	1.44	34.680	3.50	27.779	32.8	2.579
2982A	1.53	34.662	3.06	2.67	165.0	0.01	38.0	34.8	4000	1.45	34.683	3.61	27.780	32.8	2.690
3280A	1.48	34.669	3.30	2.61	162.8	0.00	37.5	34.0	4250	1.45	34.684	3.65	27.781	32.7	2.802
3579A	1.44	34.677	3.39	2.56	161.1	0.00	37.1	33.1	4500	1.46	34.687	3.72	27.783	32.5	2.916
3876A	1.45	34.682	3.58	2.54	160.1	0.00	36.6	32.8	4750	1.48	34.687	3.76	27.781	32.7	3.032
4174A	1.45	34.682	3.63	2.50	157.9	0.00	36.4	32.8	5000	1.50	34.691	3.82	27.784	32.4	3.149
4470A	1.46	34.686	3.72	2.48	155.9	0.00	35.9	32.5	5250	1.53	34.691	3.87	27.782	32.6	3.269
4765A	1.48	34.686	3.76	2.48	153.3	0.00	35.8	32.7	5500	1.56	34.692	3.93	27.780	32.8	3.392
5062A	1.505	34.692	3.83	2.48	151.6	0.00	35.7	32.4							
5355A	1.54	34.690	3.90	2.48	150.4	0.00	35.5	32.8							
5647A	1.574	34.692	3.95	2.47	148.6	0.00	35.5	32.9							
5744A	1.583	34.693	3.94	2.42	148.3	0.00	35.3	32.8							

RV THOMAS WASHINGTON

INDOPAC LEG 1

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LATITUDE		LONGITUDE		MO/DAY/YR		MESSENGER		TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES		
34 57.9N		152 54.6E		4/24/76		0512		GMT	5955M	07U	18KT	2	050 6 9		
Z	T	S	02	P04	S103	N02	N03	DT	Z	T	S	02	SIGT	DT	DD
1	16.14	34.719	5.83					247.4	0	16.14	34.719	5.83	25.518	247.4	0.000
11	16.05	34.718	5.80					245.5	10	16.06	34.719	5.80	25.535	245.8	0.025
32	15.60	34.710	5.73					236.4	20	15.85	34.715	5.77	25.580	241.5	0.049
52	15.55	34.710	5.73					235.3	30	15.64	34.711	5.74	25.625	237.2	0.073
88	15.55	34.712	5.74					235.2	50	15.56	34.711	5.73	25.644	235.4	0.121
82	15.56	34.712	5.73					235.4	75	15.56	34.712	5.74	25.646	235.3	0.180
102	15.45	34.704	5.58					233.6	100	15.46	34.706	5.60	25.661	233.8	0.239
127	15.41	34.705	5.55					232.7	125	15.42	34.706	5.55	25.672	232.8	0.298
152	15.12	34.656	5.38					230.2	150	15.15	34.661	5.39	25.696	230.4	0.357
176	14.82	34.625	5.31					226.2	200	14.52	34.604	4.97	25.788	221.7	0.473
201	14.51	34.602	4.95					221.5	250	13.80	34.548	4.76	25.898	211.3	0.584
249	13.83	34.550	4.76					211.7	300	12.26	34.426	4.81	26.113	190.9	0.688
295	12.39	34.454	4.76					192.7	400	9.94	34.238	5.63	26.388	164.8	0.874
389	10.19	34.268	5.68					166.6	500	7.55	34.011	4.99	26.584	146.2	1.038
481	8.07	34.036	5.29					151.5	600	5.39	34.003	3.24	26.861	119.9	1.178
571	5.81	33.983	3.69					126.1	700	4.42	34.080	2.13	27.032	103.7	1.297
661	4.78	34.056	2.46					109.1	800	3.90	34.161	1.63	27.151	92.4	1.402
780	4.06	34.110	1.62					97.7	1000	3.53	34.339	1.32	27.330	75.5	1.584
931	3.72	34.290	1.38					80.9							
1116	3.15	34.396	1.23					67.7							

850						INDOPAC LEG I						86					
LATITUDE	LONGITUDE	MO/DAY/YR	START TIME			LATITUDE	LONGITUDE	MO/DAY/YR	START TIME			LATITUDE	LONGITUDE	MO/DAY/YR	START TIME		
34 58.5N	153 57.8E	04/23/76	1752 GMT			34 57.9N	152 54.6E	04/24/76	0433 GMT			34 57.9N	152 54.6E	04/24/76	0433 GMT		
Z	T	S	SIGMA T	DT	DD	Z	T	S	SIGMA T	DT	DD	Z	T	S	SIGMA T	DT	DD
0	13.90	34.52	25.856	215.3	0.000	0	16.11	34.76	25.557	243.7	0.000	0	16.11	34.76	25.557	243.7	0.000
10	13.89	34.54	25.874	213.6	0.021	10	15.96	34.77	25.599	239.7	0.024	10	15.96	34.77	25.599	239.7	0.024
20	13.89	34.55	25.882	212.9	0.043	20	15.69	34.71	25.614	238.3	0.048	20	15.69	34.71	25.614	238.3	0.048
30	13.65	34.55	25.931	208.1	0.064	30	15.60	34.71	25.634	236.4	0.072	30	15.60	34.71	25.634	236.4	0.072
40	13.24	34.52	25.992	202.4	0.085	40	15.56	34.71	25.643	235.5	0.096	40	15.56	34.71	25.643	235.5	0.096
50	13.04	34.51	26.025	199.3	0.105	50	15.55	34.71	25.645	235.3	0.119	50	15.55	34.71	25.645	235.3	0.119
75	11.92	34.42	26.174	185.1	0.153	75	15.54	34.71	25.648	235.1	0.179	75	15.54	34.71	25.648	235.1	0.179
100	11.33	34.37	26.245	178.3	0.199	100	15.43	34.71	25.672	232.8	0.238	100	15.43	34.71	25.672	232.8	0.238
125	10.66	34.28	26.296	173.5	0.244	125	15.40	34.70	25.671	232.9	0.297	125	15.40	34.70	25.671	232.9	0.297
150	10.06	34.22	26.354	168.1	0.287	150	15.06	34.65	25.708	229.4	0.356	150	15.06	34.65	25.708	229.4	0.356
175	9.70	34.20	26.399	163.6	0.330	175	14.82	34.63	25.745	225.8	0.414	175	14.82	34.63	25.745	225.8	0.414
200	9.03	34.12	26.446	159.3	0.371	200	14.52	34.60	25.787	221.9	0.471	200	14.52	34.60	25.787	221.9	0.471
225	8.45	34.08	26.505	153.7	0.411	225	14.25	34.59	25.837	217.1	0.527	225	14.25	34.59	25.837	217.1	0.527
250	8.02	34.04	26.539	150.5	0.450	250	14.09	34.60	25.878	213.2	0.583	250	14.09	34.60	25.878	213.2	0.583
275	7.41	33.98	26.581	146.5	0.488	275	13.28	34.50	25.969	204.6	0.637	275	13.28	34.50	25.969	204.6	0.637
300	6.92	34.01	26.672	137.8	0.525	300	12.50	34.44	26.078	194.3	0.689	300	12.50	34.44	26.078	194.3	0.689
350	6.04	33.99	26.772	128.3	0.594	350	11.37	34.35	26.222	180.5	0.786	350	11.37	34.35	26.222	180.5	0.786
400	5.50	34.02	26.863	119.8	0.658	400	9.77	34.21	26.395	164.1	0.876	400	9.77	34.21	26.395	164.1	0.876
450	5.07	34.04	26.929	113.5	0.719	450	8.82	34.10	26.463	157.6	0.961	450	8.82	34.10	26.463	157.6	0.961
500	5.05	34.11	26.987	108.0	0.777	500	6.75	33.89	26.601	144.6	1.040	500	6.75	33.89	26.601	144.6	1.040
550	4.65	34.13	27.048	102.2	0.832	550	6.48	34.01	26.731	132.2	1.113	550	6.48	34.01	26.731	132.2	1.113
600	4.29	34.18	27.127	94.7	0.884	600	5.45	34.00	26.853	120.7	1.180	600	5.45	34.00	26.853	120.7	1.180
650	3.97	34.21	27.184	89.3	0.933	650	5.11	34.03	26.917	114.6	1.243	650	5.11	34.03	26.917	114.6	1.243
700	3.78	34.23	27.219	86.0	0.980	700	4.59	34.10	27.031	103.8	1.301	700	4.59	34.10	27.031	103.8	1.301
750	3.63	34.27	27.266	81.5	1.024	750	4.09	34.11	27.092	98.0	1.355	750	4.09	34.11	27.092	98.0	1.355
800	3.42	34.31	27.318	76.6	1.067	800	4.06	34.20	27.167	90.9	1.405	800	4.06	34.20	27.167	90.9	1.405
850	3.35	34.34	27.349	73.7	1.108	850	3.89	34.25	27.224	85.5	1.453	850	3.89	34.25	27.224	85.5	1.453
900	3.26	34.36	27.373	71.4	1.147	900	3.72	34.27	27.257	82.4	1.499	900	3.72	34.27	27.257	82.4	1.499
950	3.07	34.38	27.407	68.2	1.185	950	3.52	34.30	27.300	78.3	1.542	950	3.52	34.30	27.300	78.3	1.542
1000	2.97	34.39	27.424	66.6	1.222	1000	3.35	34.32	27.333	75.2	1.585	1000	3.35	34.32	27.333	75.2	1.585
1100	2.77	34.42	27.465	62.6	1.293	1100	3.17	34.38	27.397	69.1	1.664	1100	3.17	34.38	27.397	69.1	1.664
1200	2.61	34.46	27.511	58.3	1.361	1147	3.09	34.40	27.421	66.9	1.700						
1300	2.46	34.48	27.540	55.5	1.425												
1400	2.33	34.51	27.575	52.2	1.486												
1500	2.22	34.53	27.600	49.9	1.544												
1600	2.150	34.550	27.622	47.8	1.600												
1700	2.048	34.570	27.646	45.5	1.655												
1800	1.969	34.588	27.666	43.6	1.707												
1900	1.901	34.597	27.679	42.4	1.758												
2000	1.835	34.611	27.695	40.9	1.807												
2100	1.782	34.620	27.706	39.8	1.856												
2200	1.737	34.628	27.716	38.9	1.903												
2300	1.687	34.637	27.727	37.8	1.950												
2400	1.649	34.644	27.735	37.0	1.996												
2500	1.619	34.649	27.742	36.4	2.041												
2600	1.582	34.656	27.750	35.6	2.086												
2700	1.562	34.659	27.754	35.3	2.130												
2800	1.538	34.662	27.758	34.9	2.174												
2900	1.521	34.666	27.763	34.5	2.218												
3000	1.505	34.668	27.765	34.2	2.262												
3100	1.493	34.671	27.769	33.9	2.306												
3200	1.480	34.674	27.772	33.6	2.349												
3300	1.475	34.679	27.776	33.2	2.393												
3400	1.466	34.677	27.775	33.2	2.436												
3500	1.464	34.678	27.776	33.2	2.480												
3600	1.459	34.679	27.777	33.1	2.524												
3700	1.457	34.685	27.782	32.6	2.568												
3800	1.454	34.682	27.780	32.8	2.612												
3900	1.453	34.684	27.782	32.6	2.656												
4000	1.454	34.685	27.783	32.6	2.700												
4100	1.454	34.690	27.787	32.2	2.745												
4200	1.458	34.690	27.786	32.2	2.789												
4300	1.462	34.685	27.782	32.6	2.834												
4400	1.465	34.687	27.783	32.5	2.880												
4500	1.470	34.691	27.786	32.2	2.925												
4600	1.477	34.691	27.786	32.3	2.971												
4700	1.482	34.687	27.782	32.6	3.017												
4800	1.488	34.692	27.786	32.3	3.064												
4900	1.496	34.691	27.784	32.4	3.111												
5000	1.506	34.688	27.781	32.7	3.158												
5100	1.512	34.688	27.781	32.7	3.206												
5200	1.522	34.689	27.781	32.7	3.254												
5300	1.533	34.687	27.778	32.9	3.303												
5400	1.545	34.688	27.778	33.0	3.352												
5500	1.555	34.694	27.782	32.6	3.401												
5600	1.565	34.687	27.776	33.2	3.451												
5700	1.578	34.687	27.775	33.3	3.502												
5789	1.590	34.669	27.776	33.2	3.547												

RV THOMAS WASHINGTON

INDOPAC LEG I

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	LATITUDE 35 02. N	LONGITUDE 151 54.5E	MO/DAY/YR 4/24/76	MESSENGER 1147 1550	TIME GMT	BOTTOM 6161M	WIND 100	SPEED 13KT	WEATHER	DOMINANT WAVES					
Z	T	S	O2	P04	SIC3	N02	N03	DT	Z	T	S	O2	SIGT	DT	DD
1	15.66	34.715	5.77	0.21	5.8	0.12	2.8	237.3	0	15.66	34.715	5.77	25.624	237.3	0.000
11	15.66	34.712	5.79	0.22	5.8	0.13	2.8	237.5	10	15.66	34.713	5.79	25.622	237.5	0.024
22	15.62	34.712	5.82	0.23	5.8	0.16	2.8	236.7	20	15.63	34.712	5.82	25.629	236.8	0.048
32	15.63	34.711	5.81	0.24	5.8	0.16	2.8	237.0	30	15.63	34.712	5.81	25.629	236.9	0.071
42	15.61	34.712	5.76	0.24	5.8	0.19	2.8	236.4	50	15.59	34.714	5.76	25.639	235.9	0.119
51	15.59	34.714	5.76	0.25	5.8	0.22	2.9	235.9	75	15.58	34.711	5.66	25.638	236.0	0.178
61	15.59	34.712	5.71	0.26	6.0	0.29	3.0	236.0	100	15.58	34.710	5.67	25.638	236.0	0.238
77	15.58	34.710	5.66	0.27	6.2	0.30	2.7	236.0	125	15.57	34.711	5.60	25.641	235.7	0.298
101	15.58	34.710	5.67	0.28	6.2	0.35	3.2	236.0	150	15.56	34.711	5.53	25.644	235.5	0.358
152	15.56	34.711	5.52	0.34	6.7	0.00	4.0	235.5	200	15.47	34.710	5.53	25.663	233.6	0.478
200	15.47	34.710	5.53	0.34	6.5	0.00	4.3	233.6	250	15.21	34.658	5.48	25.681	231.9	0.597
249	15.21	34.658	5.48	0.41	7.3	0.00	4.9	231.9	300	14.90	34.620	5.46	25.719	228.4	0.716
298	14.93	34.621	5.48	0.42	7.7	0.00	5.1	228.8	400	12.97	34.480	4.92	26.015	200.2	0.940
397	13.02	34.481	4.89	0.86	15.9	0.00	11.0	201.0	500	10.74	34.316	5.88	26.309	172.3	1.137
492	11.02	34.350	5.90	0.80	16.3	0.00	9.9	174.5	600	7.56	33.988	4.87	26.593	145.3	1.306
588	7.67	33.998	5.07	1.45	35.8	0.00	19.7	148.7	700	5.59	34.012	3.27	26.845	121.4	1.448
682	5.79	34.001	3.48	2.22	64.3	0.00	30.0	124.5	800	4.71	34.107	2.22	27.022	104.7	1.570
774	4.98	34.067	2.55	2.57	83.7	0.00	35.0	110.4	1000	3.81	34.242	1.37	27.225	85.4	1.776
925A	3.86	34.236	1.31	2.91	118.4	0.14	39.8	86.5	1200	3.12	34.397	1.15	27.415	67.4	1.945
960	3.90	34.222	1.42	2.99	116.8	0.00	41.0	87.7	1500	2.54	34.487	1.06	27.538	55.7	2.155
1141	3.27	34.368	1.18	3.08	138.0	0.01	41.8	70.9	1750	2.21	34.540	1.24	27.609	49.0	2.307
1417A	2.68	34.464	1.04	3.06	156.8	0.00	43.6	58.5	2000	2.01	34.580	1.58	27.655	44.5	2.445
1663A	2.30	34.523	1.17	3.04	167.2	0.00	43.5	51.0	2250	1.86	34.611	2.01	27.693	41.0	2.574
1910A	2.08	34.567	1.42	3.01	173.1	0.00	43.1	46.0	2500	1.72	34.633	2.37	27.721	38.3	2.696
2159A	1.91	34.601	1.88	2.92	172.5	0.00	42.0	42.2	2750	1.63	34.649	2.71	27.740	36.5	2.814
2406A	1.77	34.626	2.22	2.80	171.0	0.00	41.0	39.2	3000	1.58	34.659	2.91	27.752	35.5	2.928
2653A	1.66	34.644	2.60	2.66	168.5	0.00	39.9	37.1	3250	1.54	34.666	3.10	27.761	34.6	3.041
2902A	1.60	34.656	2.84	2.64	166.8	0.00	39.2	35.8	3500	1.52	34.675	3.26	27.769	33.8	3.153
3149A	1.55	34.661	3.02	2.63	164.6	0.00	38.5	35.0	3750	1.50	34.678	3.37	27.773	33.5	3.266
3397A	1.52	34.672	3.20	2.62	163.0	0.00	38.1	34.0	4000	1.48	34.680	3.52	27.777	33.1	3.379
3644A	1.51	34.677	3.33	2.60	161.3	0.00	37.7	33.6	4250	1.47	34.685	3.64	27.781	32.7	3.492
3890A	1.48	34.677	3.44	2.55	159.8	0.00	37.6	33.3	4500	1.48	34.688	3.69	27.782	32.6	3.606
4137A	1.47	34.683	3.61	2.53	158.8	0.00	37.1	32.8	4750	1.50	34.689	3.75	27.782	32.6	3.723
4384A	1.48	34.686	3.66	2.51	158.0	0.00	37.0	32.7	5000	1.52	34.690	3.81	27.781	32.7	3.841
4630A	1.49	34.688	3.72	2.49	156.7	0.00	36.8	32.6	5250	1.54	34.691	3.88	27.780	32.8	3.962
4875A	1.51	34.689	3.78	2.47	155.2	0.00	36.4	32.6	5500	1.57	34.693	3.93	27.781	32.7	4.085
5118A	1.53	34.690	3.84	2.49	153.9	0.00	36.4	32.7	5750	1.59	34.695	3.95	27.780	32.8	4.210
5362A	1.55	34.690	3.91	2.47	151.3	0.00	36.0	32.8							
5604A	1.58	34.695	3.94	2.46	149.6	0.00	35.8	32.7							
5836A	1.60	34.694	3.95	2.46	148.3	0.00	35.7	32.9							

RV THOMAS WASHINGTON

INDOPAC LEG I

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	LATITUDE 35 00.1N	LONGITUDE 150 58.5E	MO/DAY/YR 4/24/76	MESSENGER 2050	TIME GMT	BOTTOM 6041M	WIND 10U	SPEED 5KT	WEATHER 1	DOMINANT WAVES 080 4 10					
Z	T	S	O2	P04	SIC3	N02	N03	DT	Z	T	S	O2	SIGT	DT	DD
0	16.46	34.669	5.83					258.1	0	16.46	34.669	5.83	25.406	258.1	0.000
10	16.44	34.668	5.82					257.7	10	16.44	34.668	5.82	25.410	257.7	0.026
19	16.43	34.667	5.82					257.5	20	16.40	34.666	5.82	25.416	257.1	0.052
30	15.92	34.634	5.78					248.8	30	15.92	34.634	5.78	25.503	248.8	0.077
49	14.36	34.597	5.91					218.6	50	14.35	34.598	5.90	25.821	218.6	0.124
75	14.07	34.593	5.59					213.3	75	14.07	34.593	5.59	25.877	213.3	0.178
99	13.49	34.538	5.37					205.9	100	13.47	34.536	5.37	25.958	205.6	0.231
125	12.95	34.480	5.32					199.8	125	12.95	34.480	5.32	26.020	199.8	0.283
150	12.42	34.447	5.26					192.3	150	12.42	34.447	5.26	26.099	192.3	0.333
199	11.53	34.374	5.28					181.6	200	11.51	34.373	5.27	26.214	181.3	0.428
248	10.50	34.296	4.73					169.7	250	10.45	34.292	4.73	26.341	169.3	0.518
297	9.32	34.169	4.71					160.1	300	9.23	34.162	4.70	26.446	159.3	0.603
395	6.60	33.993	4.07					135.0	400	6.50	33.990	4.03	26.712	134.0	0.756
492	5.18	33.974	3.31					119.6	500	5.13	33.980	3.24	26.874	118.7	0.888
588	4.76	34.060	2.45					108.6	600	4.70	34.077	2.34	26.999	106.8	1.006
684	4.31	34.178	1.70					95.1	700	4.25	34.190	1.63	27.138	93.6	1.113
779	3.99	34.230	1.42					88.0	800	3.93	34.243	1.38	27.213	86.6	1.210
875	3.73	34.283	1.26					81.5	1000	3.28	34.350	1.06	27.362	72.4	1.383
970	3.38	34.334	1.08					74.4							
1163	2.89	34.420	0.97					63.6							

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INDOPAC LEG I

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 LATITUDE LONGITUDE MO/DAY/YR START TIME
 35 02. N 151 54.5E 04/24/76 0946 GMT

 LATITUDE LONGITUDE MO/DAY/YR START TIME
 35 00.1N 150 58.5E 04/24/76 2005 GMT

Z	T	S	SIGMA T	DT	DD
0	15.66	34.71	25.621	237.7	0.000
10	15.65	34.71	25.623	237.4	0.024
20	15.63	34.71	25.627	237.0	0.048
30	15.58	34.71	25.638	236.0	0.071
40	15.56	34.71	25.643	235.5	0.095
50	15.56	34.71	25.643	235.5	0.119
75	15.56	34.71	25.643	235.5	0.178
100	15.55	34.71	25.645	235.5	0.237
125	15.52	34.71	25.652	234.7	0.297
150	15.50	34.71	25.656	234.4	0.357
175	15.49	34.71	25.659	234.0	0.416
200	15.46	34.71	25.665	233.4	0.476
225	15.41	34.70	25.669	233.1	0.536
250	15.19	34.67	25.695	230.6	0.596
275	15.02	34.64	25.709	229.3	0.655
300	14.87	34.62	25.726	227.6	0.715
350	13.94	34.56	25.879	213.1	0.829
400	12.69	34.46	26.056	196.5	0.937
450	11.15	34.36	26.270	176.0	1.035
500	10.21	34.25	26.351	168.3	1.126
550	8.49	34.08	26.499	154.2	1.212
600	7.21	34.01	26.632	141.0	1.291
650	6.24	34.01	26.763	129.2	1.363
700	5.40	34.01	26.867	119.4	1.429
750	4.89	34.05	26.958	110.7	1.491
800	4.67	34.11	27.030	103.9	1.548
850	4.45	34.15	27.086	98.6	1.603
900	4.06	34.21	27.175	90.2	1.654
950	3.80	34.25	27.233	84.7	1.702
1000	3.63	34.28	27.274	80.8	1.747
1100	3.31	34.35	27.360	72.6	1.832
1200	3.05	34.39	27.416	67.3	1.910
1300	2.86	34.42	27.457	63.4	1.983
1400	2.69	34.46	27.504	58.9	2.053
1500	2.49	34.49	27.545	55.0	2.118
1600	2.358	34.517	27.578	51.9	2.160
1700	2.261	34.536	27.601	49.7	2.239
1800	2.156	34.556	27.626	47.4	2.296
1900	2.074	34.570	27.644	45.7	2.351
2000	2.012	34.585	27.660	44.1	2.405
2100	1.931	34.599	27.678	42.5	2.457
2200	1.873	34.612	27.693	41.1	2.507
2300	1.825	34.620	27.703	40.1	2.557
2400	1.771	34.630	27.715	39.0	2.606
2500	1.735	34.637	27.723	38.2	2.653
2600	1.692	34.644	27.732	37.3	2.701
2700	1.657	34.649	27.739	36.7	2.747
2800	1.634	34.654	27.745	36.2	2.793
2900	1.615	34.658	27.749	35.7	2.839
3000	1.587	34.662	27.754	35.2	2.884
3100	1.575	34.664	27.757	35.0	2.930
3200	1.552	34.668	27.762	34.5	2.975
3300	1.534	34.671	27.766	34.2	3.020
3400	1.524	34.673	27.768	34.0	3.065
3500	1.513	34.676	27.771	33.7	3.109
3600	1.506	34.677	27.772	33.5	3.154
3700	1.498	34.679	27.775	33.3	3.199
3800	1.491	34.681	27.777	33.1	3.244
3900	1.484	34.683	27.779	32.9	3.288
4000	1.484	34.684	27.780	32.8	3.333
4100	1.482	34.685	27.781	32.8	3.378
4200	1.485	34.686	27.781	32.7	3.424
4300	1.486	34.686	27.781	32.7	3.469
4400	1.490	34.687	27.782	32.7	3.515
4500	1.494	34.687	27.781	32.7	3.561
4600	1.499	34.688	27.782	32.6	3.608
4700	1.506	34.688	27.781	32.7	3.654
4800	1.512	34.689	27.782	32.7	3.701
4900	1.518	34.689	27.781	32.7	3.749
5000	1.526	34.690	27.781	32.7	3.797
5100	1.533	34.690	27.781	32.7	3.845
5200	1.540	34.691	27.781	32.7	3.893
5300	1.549	34.692	27.781	32.7	3.942
5400	1.557	34.691	27.780	32.8	3.991
5500	1.565	34.692	27.780	32.8	4.041
5600	1.575	34.693	27.780	32.8	4.090
5700	1.588	34.693	27.779	32.9	4.141
5800	1.599	34.693	27.778	33.0	4.192
5867	1.607	34.694	27.779	32.9	4.226

Z	T	S	SIGMA T	DT	DD
0	16.44	34.66	25.404	258.3	0.000
10	16.42	34.67	25.416	257.1	0.026
20	15.91	34.61	25.487	250.3	0.051
30	14.74	34.57	25.716	228.6	0.075
40	14.39	34.60	25.815	219.2	0.098
50	14.28	34.60	25.838	217.0	0.120
75	13.67	34.55	25.886	212.5	0.174
100	13.30	34.51	25.972	204.3	0.226
125	12.75	34.47	26.052	196.7	0.277
150	12.30	34.44	26.116	190.6	0.327
175	11.99	34.42	26.160	186.4	0.375
200	11.53	34.37	26.208	181.9	0.422
225	11.04	34.33	26.267	176.3	0.468
250	10.40	34.26	26.326	170.7	0.513
275	9.68	34.18	26.387	164.9	0.556
300	9.11	34.13	26.441	159.8	0.598
350	7.92	34.05	26.562	148.3	0.678
400	6.65	34.01	26.709	134.3	0.751
450	5.75	33.97	26.793	126.4	0.819
500	5.09	33.97	26.872	118.9	0.884
550	4.90	34.02	26.933	113.1	0.944
600	4.73	34.10	27.015	105.3	1.002
650	4.46	34.14	27.077	99.5	1.056
700	4.26	34.18	27.130	94.4	1.108
750	4.09	34.22	27.179	89.7	1.157
800	3.95	34.25	27.218	86.1	1.205
850	3.79	34.27	27.250	83.1	1.251
900	3.61	34.29	27.284	79.8	1.295
950	3.43	34.32	27.325	75.9	1.337
1000	3.28	34.35	27.363	72.3	1.378
1100	3.03	34.40	27.426	66.3	1.455
1160	2.88	34.42	27.456	63.5	1.513

RV THOMAS WASHINGTON

INDOPAC LEG 1

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LATITUDE 35 00. N		LONGITUDE 149 52. E		MO/DAY/YR 4/25/76		MESSENGER 0345 0815		TIME GMT	BOTTOM 6094M	WIND 35U	SPEED 3KT	WEATHER 1	DOMINANT WAVES 130 6		
Z	T	S	O2	P04	SI03	N02	N03	DT	Z	T	S	O2	SIGT	DT	DD
1	15.96	34.616	5.96	0.39	10.4	0.22	2.8	251.0	0	15.96	34.616	5.96	25.481	251.0	0.000
11	15.18	34.600	6.25	0.36	10.3	0.20	2.9	235.5	10	15.24	34.603	6.24	25.632	236.6	0.024
22	14.88	34.586	6.08	0.27	10.4	0.17	2.6	230.3	20	14.91	34.591	6.12	25.693	230.8	0.048
32	14.58	34.558	6.08	0.33	11.4	0.42	3.0	226.2	30	14.63	34.563	6.08	25.734	226.9	0.071
51	14.60	34.611	5.89	0.37	10.7	0.43	4.2	222.7	50	14.60	34.609	5.90	25.776	222.9	0.116
61	14.37	34.604	5.79	0.36	11.0	0.72	4.4	218.5	75	13.92	34.575	5.62	25.893	211.8	0.171
76	13.89	34.571	5.61	0.50	12.0	0.45	6.1	211.3	100	13.27	34.523	5.48	25.988	202.7	0.223
91	13.52	34.540	5.52	0.57	13.4	0.28	7.5	206.3	125	12.56	34.462	5.35	26.082	195.8	0.273
102	13.21	34.518	5.47	0.63	14.0	0.04	8.4	201.9	150	12.10	34.426	5.46	26.144	187.9	0.322
127	12.51	34.457	5.34	0.71	16.1	0.00	9.9	193.2	200	10.68	34.289	4.91	26.299	173.3	0.414
151	12.08	34.424	5.47	0.77	16.2	0.00	10.2	187.7	250	9.46	34.129	5.11	26.382	165.3	0.501
201	10.65	34.285	4.90	1.08	24.4	0.00	14.8	173.0	300	8.84	34.171	4.01	26.516	152.7	0.584
251	9.44	34.126	5.11	1.14	26.6	0.00	15.1	165.2	400	6.34	34.010	3.82	26.748	130.6	0.731
300	8.84	34.171	4.01	1.57	39.6	0.00	22.0	152.7	500	5.07	34.016	2.92	26.909	115.3	0.859
399	6.36	34.009	3.83	2.02	56.9	0.00	27.7	130.8	600	4.69	34.142	2.05	27.052	101.8	0.974
497	5.09	34.012	2.95	2.44	77.4	0.00	34.0	115.8	700	4.23	34.217	1.58	27.162	91.3	1.076
596	4.71	34.138	2.07	2.65	95.7	0.00	37.9	102.2	800	3.78	34.270	1.33	27.250	83.1	1.170
790	3.82	34.263	1.36	2.92	122.0	0.00	41.9	83.9	1000	3.20	34.364	1.08	27.382	70.6	1.338
985	3.23	34.358	1.07	3.06	140.4	0.00	43.9	71.3	1200	2.78	34.437	1.01	27.478	61.4	1.484
1029A	3.13	34.371	1.09	3.02	143.3	0.00	42.6	69.4	1500	2.36	34.521	0.93	27.581	51.7	1.676
1181	2.81	34.431	1.00	3.12	153.7	0.03	44.6	62.1	1750	2.12	34.563	1.39	27.634	46.7	1.819
1224A	2.75	34.446	1.02	3.05	156.9	0.00	43.8	60.5	2000	1.95	34.593	1.78	27.670	43.2	1.952
1418A	2.46	34.503	0.85	3.02	166.4	0.00	43.8	53.8	2250	1.79	34.623	2.20	27.707	39.6	2.077
1613A	2.24	34.541	1.13	2.95	171.4	0.00	43.4	45.2	2500	1.67	34.639	2.56	27.730	37.4	2.196
1808A	2.08	34.570	1.50	2.97	174.1	0.00	42.8	45.8	2750	1.60	34.651	2.83	27.744	36.1	2.311
2003A	1.95	34.592	1.78	2.89	174.7	0.00	42.1	43.1	3000	1.57	34.662	3.02	27.755	35.2	2.424
2292A	1.76	34.627	2.27	2.76	172.3	0.00	40.6	39.1	3250	1.54	34.671	3.18	27.764	34.3	2.537
2583A	1.64	34.644	2.66	2.71	169.4	0.00	39.7	37.0	3500	1.50	34.677	3.32	27.772	33.5	2.648
2874A	1.58	34.656	2.93	2.71	167.3	0.00	38.8	35.6	3750	1.48	34.680	3.44	27.776	33.2	2.760
3163A	1.56	34.667	3.13	2.63	165.8	0.00	38.3	34.7	4000	1.46	34.681	3.48	27.779	32.9	2.872
3451A	1.51	34.676	3.29	2.55	163.9	0.00	37.7	33.6	4250	1.47	34.684	3.58	27.780	32.8	2.984
3741A	1.48	34.679	3.44	2.50	162.0	0.00	37.5	33.2	4500	1.48	34.685	3.65	27.781	32.7	3.099
4028A	1.46	34.681	3.48	2.51	160.4	0.00	37.2	32.9	4750	1.49	34.690	3.74	27.783	32.5	3.215
4316A	1.47	34.684	3.61	2.51	158.7	0.00	36.8	32.7	5000	1.51	34.694	3.83	27.785	32.3	3.332
4605A	1.48	34.685	3.68	2.48	157.6	0.00	36.7	32.7	5250	1.53	34.695	3.89	27.784	32.4	3.452
4894A	1.50	34.693	3.80	2.47	154.7	0.00	36.3	32.3	5500	1.56	34.696	3.93	27.783	32.5	3.574
5183A	1.527	34.694	3.87	2.45	152.6	0.00	36.3	32.4	5750	1.59	34.698	3.96	27.782	32.6	3.699
5472A	1.558	34.695	3.93	2.49	150.3	0.00	35.9	32.5							
5759A	1.588	34.697	3.96	2.49	149.4	0.00	35.8	32.6							
5854A	1.606	34.697	3.99	2.47	148.7	0.00	35.6	32.7							

RV THOMAS WASHINGTON

INDOPAC LEG 1

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LATITUDE 34 58.4N		LONGITUDE 148 59. E		MO/DAY/YR 4/25/76		MESSENGER 1311 GMT		TIME GMT	BOTTOM 6147M	WIND 17U	SPEED 4KT	WEATHER	DOMINANT WAVES		
Z	T	S	O2	P04	SI03	N02	N03	DT	Z	T	S	O2	SIGT	DT	DD
2	15.95	34.649	5.95					248.4	0	15.95	34.649	5.95	25.508	248.4	0.000
12	15.06	34.643	6.08					229.9	10	15.18	34.645	6.07	25.676	232.4	0.024
23	14.85	34.637	6.05					225.9	20	14.89	34.642	6.06	25.739	226.4	0.047
32	14.34	34.595	5.65					218.6	30	14.46	34.606	5.74	25.804	220.2	0.069
52	14.09	34.597	5.55					213.4	50	14.12	34.603	5.56	25.875	213.5	0.113
77	13.77	34.564	5.46					209.5	75	13.79	34.568	5.47	25.915	209.7	0.166
102	13.54	34.561	5.72					205.2	100	13.56	34.562	5.70	25.959	205.5	0.219
127	13.09	34.493	5.44					201.5	125	13.13	34.499	5.47	25.998	201.8	0.271
153	12.70	34.487	5.45					194.5	150	12.75	34.483	5.45	26.065	195.4	0.321
202	11.45	34.367	5.09					180.7	200	11.50	34.374	5.11	26.215	181.2	0.417
252	10.50	34.270	4.97					171.6	250	10.54	34.275	4.97	26.313	171.9	0.508
302	9.16	34.157	4.60					158.5	300	9.22	34.162	4.62	26.448	159.1	0.594
403	6.99	34.062	3.81					134.8	400	7.04	34.064	3.84	26.697	135.5	0.747
503	5.92	34.106	2.83					118.2	500	5.95	34.106	2.86	26.875	118.6	0.880
604	4.68	34.090	2.24					105.5	600	4.72	34.091	2.26	27.008	106.0	0.999
703	4.21	34.158	1.72					95.6	700	4.22	34.156	1.73	27.115	95.9	1.106
802	3.87	34.238	1.34					86.2	800	3.88	34.238	1.35	27.215	86.4	1.204
899	3.53	34.298	1.13					78.5	1000	3.23	34.357	1.08	27.372	71.5	1.376
997	3.24	34.354	1.08					71.7	1200	2.84	34.426	0.96	27.464	62.8	1.525
1200	2.84	34.426	0.96					62.8							

890						INDOPAC LEG I						90					
LATITUDE	LONGITUDE	MO/DAY/YR	START TIME			LATITUDE	LONGITUDE	MO/DAY/YR	START TIME			LATITUDE	LONGITUDE	MO/DAY/YR	START TIME		
35 00. N	149 52.1E	04/25/76	0140 GMT			34 58.4N	149 59. E	04/25/76	1236 GMT								
Z	T	S	SIGMA T	DT	DD	Z	T	S	SIGMA T	DT	DD	Z	T	S	SIGMA T	DT	DD
0	16.25	34.71	25.486	250.4	0.000	0	15.54	34.67	25.617	238.0	0.000	0	15.54	34.67	25.617	238.0	0.000
10	15.31	34.66	25.660	233.9	0.024	10	15.07	34.64	25.698	230.3	0.023	10	15.07	34.64	25.698	230.3	0.023
20	14.67	34.61	25.762	224.2	0.047	20	14.65	34.61	25.767	223.8	0.046	20	14.65	34.61	25.767	223.8	0.046
30	14.39	34.60	25.815	219.2	0.069	30	14.36	34.60	25.821	218.6	0.068	30	14.36	34.60	25.821	218.6	0.068
40	14.05	34.55	25.848	216.0	0.091	40	14.23	34.60	25.849	216.0	0.090	40	14.23	34.60	25.849	216.0	0.090
50	13.54	34.53	25.939	207.4	0.113	50	14.17	34.60	25.861	214.8	0.112	50	14.17	34.60	25.861	214.8	0.112
75	13.38	34.53	25.971	204.3	0.164	75	13.70	34.56	25.929	208.4	0.165	75	13.70	34.56	25.929	208.4	0.165
100	13.19	34.52	26.002	201.4	0.216	100	13.52	34.56	25.966	204.8	0.217	100	13.52	34.56	25.966	204.8	0.217
125	12.50	34.46	26.093	192.8	0.266	125	13.04	34.52	26.033	198.5	0.269	125	13.04	34.52	26.033	198.5	0.269
150	12.17	34.44	26.141	188.2	0.314	150	12.53	34.46	26.103	191.9	0.318	150	12.53	34.46	26.103	191.9	0.318
175	11.74	34.39	26.184	184.1	0.362	175	11.90	34.41	26.170	185.5	0.367	175	11.90	34.41	26.170	185.5	0.367
200	11.10	34.32	26.248	178.1	0.408	200	11.38	34.37	26.236	179.2	0.413	200	11.38	34.37	26.236	179.2	0.413
225	10.38	34.24	26.314	171.8	0.453	225	10.85	34.30	26.278	175.2	0.459	225	10.85	34.30	26.278	175.2	0.459
250	9.87	34.13	26.316	171.7	0.497	250	10.30	34.24	26.329	170.5	0.503	250	10.30	34.24	26.329	170.5	0.503
275	9.24	34.14	26.428	161.0	0.540	275	9.22	34.11	26.407	162.9	0.546	275	9.22	34.11	26.407	162.9	0.546
300	8.91	34.15	26.488	155.3	0.581	300	9.00	34.14	26.466	157.4	0.588	300	9.00	34.14	26.466	157.4	0.588
350	7.65	34.07	26.617	143.1	0.659	350	8.00	34.10	26.589	145.7	0.666	350	8.00	34.10	26.589	145.7	0.666
400	6.56	34.01	26.721	133.2	0.731	400	7.24	34.08	26.683	136.8	0.740	400	7.24	34.08	26.683	136.8	0.740
450	5.85	34.00	26.804	125.3	0.798	450	6.47	34.09	26.796	126.1	0.809	450	6.47	34.09	26.796	126.1	0.809
500	5.13	34.02	26.900	116.3	0.861	500	5.93	34.09	26.865	119.5	0.874	500	5.93	34.09	26.865	119.5	0.874
550	4.91	34.06	26.963	110.2	0.921	550	4.84	34.01	26.932	113.2	0.935	550	4.84	34.01	26.932	113.2	0.935
600	4.70	34.11	27.027	104.2	0.977	600	4.66	34.08	27.007	106.0	0.993	600	4.66	34.08	27.007	106.0	0.993
650	4.51	34.16	27.087	98.5	1.031	650	4.55	34.15	27.075	99.6	1.047	650	4.55	34.15	27.075	99.6	1.047
700	4.39	34.21	27.140	93.5	1.082	700	4.18	34.16	27.122	95.1	1.099	700	4.18	34.16	27.122	95.1	1.099
750	3.94	34.21	27.187	89.0	1.131	750	4.08	34.21	27.172	90.4	1.149	750	4.08	34.21	27.172	90.4	1.149
800	3.79	34.26	27.242	83.8	1.178	800	3.89	34.24	27.216	86.3	1.196	800	3.89	34.24	27.216	86.3	1.196
850	3.64	34.28	27.273	80.9	1.222	850	3.70	34.28	27.267	81.4	1.242	850	3.70	34.28	27.267	81.4	1.242
900	3.50	34.31	27.310	77.3	1.265	900	3.54	34.30	27.299	78.5	1.285	900	3.54	34.30	27.299	78.5	1.285
950	3.28	34.34	27.355	73.1	1.306	950	3.33	34.32	27.334	75.0	1.327	950	3.33	34.32	27.334	75.0	1.327
1000	3.20	34.36	27.378	70.8	1.346	1000	3.23	34.35	27.368	71.9	1.367	1000	3.23	34.35	27.368	71.9	1.367
1100	2.98	34.40	27.431	65.9	1.421	1100	3.04	34.40	27.425	66.4	1.444	1100	3.04	34.40	27.425	66.4	1.444
1200	2.77	34.43	27.473	61.9	1.493	1200	2.82	34.43	27.469	62.3	1.515	1200	2.82	34.43	27.469	62.3	1.515
1300	2.62	34.46	27.510	58.4	1.560												
1400	2.49	34.49	27.545	55.0	1.624												
1500	2.37	34.51	27.572	52.6	1.686												
1600	2.265	34.534	27.599	49.9	1.745												
1700	2.158	34.554	27.624	47.6	1.802												
1800	2.076	34.571	27.644	45.7	1.857												
1900	1.995	34.586	27.663	43.9	1.910												
2000	1.915	34.600	27.680	42.3	1.961												
2100	1.853	34.612	27.694	40.9	2.011												
2200	1.788	34.625	27.710	39.5	2.060												
2300	1.715	34.634	27.721	38.4	2.107												
2400	1.656	34.642	27.730	37.5	2.154												
2500	1.660	34.647	27.737	36.9	2.200												
2600	1.629	34.653	27.744	36.2	2.245												
2700	1.603	34.658	27.750	35.6	2.291												
2800	1.580	34.662	27.755	35.2	2.335												
2900	1.567	34.668	27.761	34.6	2.380												
3000	1.550	34.668	27.762	34.5	2.424												
3100	1.537	34.671	27.765	34.2	2.468												
3200	1.525	34.673	27.768	34.0	2.513												
3300	1.513	34.676	27.771	33.7	2.557												
3400	1.503	34.678	27.773	33.4	2.601												
3500	1.497	34.679	27.775	33.3	2.645												
3600	1.489	34.681	27.777	33.1	2.689												
3700	1.480	34.683	27.779	32.9	2.734												
3800	1.479	34.684	27.780	32.8	2.778												
3900	1.477	34.685	27.781	32.7	2.822												
4000	1.473	34.686	27.782	32.6	2.867												
4100	1.473	34.688	27.784	32.5	2.912												
4200	1.475	34.688	27.783	32.5	2.957												
4300	1.478	34.688	27.783	32.5	3.002												
4400	1.479	34.689	27.784	32.4	3.048												
4500	1.485	34.690	27.784	32.4	3.093												
4600	1.488	34.690	27.784	32.4	3.139												
4700	1.493	34.691	27.785	32.4	3.186												
4800	1.499	34.693	27.786	32.3	3.232												
4900	1.507	34.692	27.784	32.4	3.279												
5000	1.515	34.692	27.784	32.4	3.327												
5100	1.522	34.693	27.784	32.4	3.374												
5200	1.531	34.693	27.783	32.5	3.422												
5300	1.540	34.693	27.783	32.5	3.471												
5400	1.551	34.694	27.783	32.5	3.520												
5500	1.563	34.693	27.781	32.7	3.569												
5600	1.573	34.695	27.782	32.6	3.619												
5700	1.586	34.695	27.781	32.7	3.669												
5800	1.598	34.695	27.780	32.8	3.720												
5857	1.605	34.696	27.780	32.8	3.749												

RV THOMAS WASHINGTON

INDOPAC LEG 1

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	LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES					
	34 56.5N	147 59.4E	4/25/76	201A	0048	GMT	5955M	270	8KT	2	270 4 4				
Z	T	S	O2	P04	SIGT	N02	N03	DT	Z	T	S	O2	SIGT	DT	DD
2	18.87	34.732	5.58	0.16	4.0	0.00	0.0	309.2	0	18.87	34.732	5.58	24.869	309.2	0.000
11	18.87	34.729	5.58	0.17	3.8	0.00	0.0	309.4	10	18.87	34.730	5.58	24.867	309.4	0.031
22	18.85	34.728	5.58	0.11	3.8	0.00	0.0	308.5	20	18.84	34.729	5.58	24.874	308.7	0.062
32	18.65	34.723	5.51	0.13	3.8	0.07	0.0	304.5	30	18.70	34.724	5.52	24.906	305.6	0.093
51	17.92	34.729	5.50	0.15	4.0	0.13	0.2	286.9	50	17.96	34.729	5.50	25.092	287.9	0.152
61	17.61	34.732	5.48	0.14	4.0	0.13	0.7	279.4	75	17.57	34.746	5.58	25.251	272.8	0.223
76	17.35	34.746	5.59	0.10	4.0	0.10	0.2	272.5	100	16.75	34.699	4.84	25.360	262.4	0.291
91	16.98	34.704	4.73	0.38	8.3	0.12	4.5	267.1	125	16.43	34.677	5.01	25.419	256.8	0.356
101	16.73	34.698	4.87	0.41	8.3	0.12	4.5	261.9	150	16.21	34.680	4.94	25.473	251.7	0.421
126	16.42	34.675	5.01	0.35	8.2	0.17	4.5	256.7	200	15.69	34.635	4.99	25.555	243.9	0.548
151	16.20	34.680	4.94	0.37	8.5	0.13	4.7	251.5	250	15.23	34.649	4.55	25.670	233.0	0.670
201	15.66	34.633	4.99	0.44	10.5	0.12	5.6	243.7	300	14.16	34.574	4.26	25.842	216.6	0.786
250	15.23	34.649	4.55	0.56	11.6	0.00	8.0	233.0	400	10.97	34.310	4.84	26.264	176.5	0.992
299	14.19	34.575	4.26	0.62	17.1	0.00	11.2	217.0	500	8.85	34.112	5.42	26.468	157.2	1.168
400	10.97	34.310	4.84	0.87	23.8	0.00	13.7	176.5	600	5.78	33.962	3.60	26.783	127.3	1.318
500	8.85	34.112	5.42	1.04	28.3	0.00	15.1	157.2	700	4.72	34.073	2.56	26.994	107.4	1.443
600	5.78	33.962	3.60	2.06	61.7	0.00	29.0	127.3	800	4.32	34.163	1.76	27.110	96.4	1.553
792A	4.39	34.164	1.80	2.69	103.8	0.291	37.1	97.0	1000	3.49	34.311	1.14	27.311	77.3	1.741
801	4.31	34.162	1.75	2.40	105.1	0.00	40.0	96.3	1200	2.97	34.406	1.04	27.436	65.4	1.900
992A	3.51	34.308	1.15	2.95	131.6	0.13	41.8	77.6	1500	2.42	34.506	1.06	27.564	53.3	2.101
1004	3.48	34.309	1.13	2.81	131.7	0.00	43.5	77.2	1750	2.16	34.555	1.36	27.624	47.6	2.248
1191A	2.96	34.410	1.05	3.00	150.7	0.13	42.7	65.0	2000	1.97	34.591	1.77	27.668	43.3	2.383
1208	2.98	34.402	1.05	2.83	148.7	0.00	44.6	65.8	2250	1.80	34.618	2.14	27.702	40.1	2.509
1392A	2.58	34.476	1.00	3.06	163.5	0.04	43.6	56.8	2500	1.68	34.639	2.47	27.728	37.6	2.628
1641A	2.26	34.534	1.20	2.98	171.7	0.03	43.6	49.9	2750	1.61	34.654	2.77	27.746	36.0	2.743
1892A	2.05	34.577	1.60	2.93	174.0	0.00	42.2	45.0	3000	1.57	34.660	2.99	27.754	35.3	2.856
2141A	1.87	34.607	1.99	2.76	175.2	0.00	40.8	41.4	3250	1.52	34.669	3.18	27.764	34.3	2.969
2390A	1.73	34.631	2.32	2.73	173.2	0.00	39.7	38.6	3500	1.49	34.676	3.31	27.772	33.5	3.080
2689A	1.62	34.652	2.71	2.69	170.8	0.00	38.6	36.2	3750	1.47	34.680	3.44	27.777	33.0	3.191
2988A	1.57	34.659	2.98	2.64	168.2	0.00	37.9	35.3	4000	1.46	34.683	3.54	27.780	32.8	3.302
3286A	1.51	34.669	3.20	2.58	164.6	0.00	36.8	34.2	4250	1.46	34.686	3.61	27.782	32.6	3.414
3584A	1.48	34.678	3.35	2.54	163.6	0.00	36.5	33.3	4500	1.48	34.691	3.68	27.785	32.7	3.528
3890A	1.46	34.681	3.51	2.51	161.2	0.00	35.6	32.9	4750	1.49	34.693	3.77	27.786	32.3	3.643
4228A	1.46	34.685	3.60	2.47	159.3	0.00	35.8	32.6	5000	1.50	34.693	3.83	27.785	32.4	3.760
4573A	1.48	34.692	3.70	2.47	157.0	0.00	35.2	32.2	5250	1.53	34.693	3.87	27.783	32.5	3.880
4869A	1.49	34.692	3.81	2.47	154.8	0.00	35.3	32.3	5500	1.56	34.695	3.92	27.782	32.6	4.002
5163A	1.522	34.692	3.85	2.46	152.4	0.00	34.8	32.5	5750	1.59	34.695	3.94	27.780	32.8	4.128
5456A	1.553	34.694	3.91	2.47	150.8	0.00	34.8	32.6							
5749A	1.591	34.694	3.94	2.46	149.3	0.00	34.7	32.8							
5844A	1.600	34.698	3.94	2.46	149.5	0.00	34.5	32.6							

RV THOMAS WASHINGTON

INDOPAC LEG 1

92

LATITUDE		LONGITUDE		MO/DAY/YR		MESSENGER		TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES		
35 12.2N		147 00.3E		4/26/76		1510		GMT	6038M	200	28KT	5	120 10 6		
Z	T	S	O2	P04	SIGT	N02	N03	DT	Z	T	S	O2	SIGT	DT	DD
1	18.68	34.712	5.57					306.1	0	18.68	34.712	5.57	24.902	306.1	0.000
11	18.20	34.702	5.41					295.4	10	18.24	34.703	5.42	25.004	296.3	0.030
42	17.40	34.678	5.12					278.5	20	17.92	34.695	5.31	25.076	289.5	0.059
72	16.43	34.661	4.84					258.0	30	17.66	34.688	5.21	25.135	283.9	0.088
101	15.93	34.670	4.57					246.4	50	17.13	34.672	5.05	25.251	272.8	0.144
149	13.49	34.485	5.76					209.8	75	16.39	34.665	4.79	25.420	256.8	0.211
195	11.66	34.425	3.91					180.1	100	15.95	34.671	4.57	25.525	246.8	0.274
240	10.31	34.299	4.28					166.3	125	14.80	34.582	5.24	25.711	229.1	0.335
284	9.40	34.253	3.84					155.1	150	13.45	34.484	5.72	25.922	209.0	0.391
329	6.76	33.906	4.88					143.5	200	11.49	34.411	3.92	26.247	178.1	0.489
371	5.07	33.721	5.52					137.4	250	10.16	34.302	4.15	26.400	163.7	0.577
413	4.17	33.696	4.74					129.9	300	8.51	34.133	4.14	26.536	150.7	0.659
454	3.99	34.064	3.23					122.2	400	4.26	33.677	5.10	26.730	132.3	0.805
494	3.58	34.099	2.89					114.8	500	5.41	34.085	2.85	26.924	113.9	0.933
535	4.38	33.992	2.61					109.8	600	3.78	33.992	2.15	27.029	103.9	1.047
575	3.79	33.960	2.34					106.4	700	3.95	34.134	1.58	27.135	94.0	1.151
616	3.77	34.012	2.03					102.3	800	3.74	34.254	1.33	27.241	83.9	1.246
696	3.85	34.127	1.59					94.4	1000	3.12	34.383	1.05	27.404	68.5	1.412
863	3.59	34.312	1.26					78.0							
1045	2.95	34.398	0.99					65.8							
3446A	1.450	34.670						33.7							
4911A	1.486	34.686						32.7							
5892A	1.605	34.694						32.9							

910						INDOPAC LEG 1						920					
LATITUDE	LONGITUDE	MO/DAY/YR	START TIME			LATITUDE	LONGITUDE	MO/DAY/YR	START TIME			LATITUDE	LONGITUDE	MO/DAY/YR	START TIME		
34 56.5N	147 59.4E	04/25/76	1759 GMT			35 12.2N	147 00.3E	04/26/76	0406 GMT			35 12.2N	147 00.3E	04/26/76	0406 GMT		
Z	T	S	SIGMA T	DT	DD	Z	T	S	SIGMA T	DT	DD	Z	T	S	SIGMA T	DT	DD
0	18.97	34.74	24.850	311.0	0.000	0	18.59	34.67	24.892	307.0	0.000	0	18.59	34.67	24.892	307.0	0.000
10	18.96	34.74	24.852	310.8	0.031	10	18.58	34.69	24.965	300.0	0.030	10	18.58	34.69	24.965	300.0	0.030
20	18.39	34.74	24.996	297.1	0.062	20	18.21	34.70	25.010	295.8	0.060	20	18.21	34.70	25.010	295.8	0.060
30	18.02	34.74	25.007	288.4	0.091	30	17.07	34.68	25.070	289.2	0.090	30	17.07	34.68	25.070	289.2	0.090
40	17.68	34.72	25.155	281.9	0.120	40	17.23	34.68	25.233	274.5	0.118	40	17.23	34.68	25.233	274.5	0.118
50	17.09	34.70	25.282	269.9	0.147	50	16.94	34.68	25.297	268.4	0.145	50	16.94	34.68	25.297	268.4	0.145
75	16.74	34.76	25.410	257.6	0.214	75	16.22	34.67	25.462	252.7	0.211	75	16.22	34.67	25.462	252.7	0.211
100	16.62	34.75	25.431	255.7	0.279	100	15.62	34.64	25.576	241.9	0.273	100	15.62	34.64	25.576	241.9	0.273
125	16.59	34.75	25.438	255.0	0.343	125	14.96	34.59	25.684	231.7	0.333	125	14.96	34.59	25.684	231.7	0.333
150	16.47	34.74	25.458	253.1	0.408	150	13.28	34.44	25.922	209.0	0.389	150	13.28	34.44	25.922	209.0	0.389
175	16.31	34.74	25.495	249.6	0.472	175	12.42	34.45	26.101	192.0	0.441	175	12.42	34.45	26.101	192.0	0.441
200	15.89	34.71	25.569	242.6	0.535	200	11.40	34.37	26.228	179.9	0.488	200	11.40	34.37	26.228	179.9	0.488
225	15.55	34.68	25.622	237.5	0.597	225	10.93	34.33	26.287	174.4	0.534	225	10.93	34.33	26.287	174.4	0.534
250	15.13	34.65	25.693	230.0	0.657	250	10.18	34.29	26.386	164.8	0.577	250	10.18	34.29	26.386	164.8	0.577
275	14.64	34.62	25.776	222.9	0.716	275	9.72	34.27	26.450	158.9	0.619	275	9.72	34.27	26.450	158.9	0.619
300	14.48	34.61	25.803	220.3	0.773	300	8.41	34.15	26.566	147.9	0.659	300	8.41	34.15	26.566	147.9	0.659
350	12.11	34.44	26.153	187.1	0.879	350	4.48	33.88	26.631	141.6	0.734	350	4.48	33.88	26.631	141.6	0.734
400	10.91	34.35	26.306	172.6	0.973	400	4.57	33.69	26.708	134.4	0.804	400	4.57	33.69	26.708	134.4	0.804
450	10.07	34.27	26.391	164.5	1.062	450	4.82	33.83	26.792	126.5	0.872	450	4.82	33.83	26.792	126.5	0.872
500	8.16	34.04	26.518	152.5	1.146	500	5.21	34.04	26.913	115.0	0.935	500	5.21	34.04	26.913	115.0	0.935
550	6.73	33.97	26.667	138.4	1.223	550	4.20	33.99	26.986	108.1	0.993	550	4.20	33.99	26.986	108.1	0.993
600	5.97	34.01	26.797	126.0	1.293	600	4.17	34.05	27.036	103.3	1.048	600	4.17	34.05	27.036	103.3	1.048
650	5.20	34.01	26.891	117.1	1.357	650	3.94	34.08	27.084	98.8	1.102	650	3.94	34.08	27.084	98.8	1.102
700	4.86	34.06	26.969	109.7	1.416	700	3.85	34.16	27.156	91.9	1.152	700	3.85	34.16	27.156	91.9	1.152
750	4.56	34.11	27.042	102.8	1.475	750	3.77	34.21	27.204	87.4	1.200	750	3.77	34.21	27.204	87.4	1.200
800	4.37	34.16	27.102	97.0	1.528	800	3.66	34.25	27.247	83.3	1.246	800	3.66	34.25	27.247	83.3	1.246
850	4.06	34.20	27.167	90.9	1.579	850	3.54	34.30	27.294	78.5	1.290	850	3.54	34.30	27.294	78.5	1.290
900	3.85	34.25	27.228	85.1	1.627	900	3.35	34.33	27.340	74.4	1.331	900	3.35	34.33	27.340	74.4	1.331
950	3.68	34.28	27.269	81.3	1.672	950	3.22	34.35	27.369	71.8	1.371	950	3.22	34.35	27.369	71.8	1.371
1000	3.47	34.31	27.313	77.0	1.716	1000	3.11	34.37	27.395	69.3	1.410	1000	3.11	34.37	27.395	69.3	1.410
1100	3.19	34.36	27.379	70.8	1.797	1100	2.84	34.39	27.435	65.5	1.484	1100	2.84	34.39	27.435	65.5	1.484
1200	2.93	34.41	27.443	64.7	1.873	1200	2.69	34.44	27.488	60.4	1.554	1200	2.69	34.44	27.488	60.4	1.554
1300	2.73	34.44	27.485	60.6	1.943	1300	2.53	34.47	27.526	56.9	1.620	1300	2.53	34.47	27.526	56.9	1.620
1400	2.56	34.47	27.524	57.1	2.010	1400	2.41	34.49	27.552	54.4	1.683	1400	2.41	34.49	27.552	54.4	1.683
1500	2.42	34.50	27.559	53.7	2.073	1500	2.29	34.52	27.586	51.2	1.743	1500	2.29	34.52	27.586	51.2	1.743
1600	2.304	34.528	27.591	50.7	2.134	1600	2.165	34.545	27.616	48.3	1.800	1600	2.165	34.545	27.616	48.3	1.800
1700	2.196	34.549	27.617	48.2	2.191	1700	2.063	34.564	27.640	46.1	1.855	1700	2.063	34.564	27.640	46.1	1.855
1800	2.093	34.568	27.640	45.0	2.247	1800	1.995	34.579	27.658	44.4	1.908	1800	1.995	34.579	27.658	44.4	1.908
1900	2.032	34.581	27.656	44.6	2.300	1900	1.921	34.591	27.672	43.0	1.960	1900	1.921	34.591	27.672	43.0	1.960
2000	1.955	34.595	27.673	43.0	2.352	2000	1.866	34.602	27.685	41.8	2.010	2000	1.866	34.602	27.685	41.8	2.010
2100	1.891	34.606	27.687	41.6	2.403	2100	1.790	34.615	27.702	40.2	2.059	2100	1.790	34.615	27.702	40.2	2.059
2200	1.829	34.619	27.702	40.2	2.453	2200	1.734	34.625	27.714	39.1	2.107	2200	1.734	34.625	27.714	39.1	2.107
2300	1.773	34.628	27.713	39.1	2.501	2300	1.692	34.632	27.723	38.2	2.154	2300	1.692	34.632	27.723	38.2	2.154
2400	1.736	34.635	27.722	38.3	2.549	2400	1.654	34.639	27.731	37.4	2.200	2400	1.654	34.639	27.731	37.4	2.200
2500	1.697	34.643	27.731	37.4	2.596	2500	1.632	34.643	27.736	37.0	2.246	2500	1.632	34.643	27.736	37.0	2.246
2600	1.657	34.649	27.739	36.7	2.642	2600	1.626	34.646	27.739	36.7	2.292	2600	1.626	34.646	27.739	36.7	2.292
2700	1.625	34.655	27.746	36.0	2.688	2700	1.607	34.649	27.743	36.3	2.338	2700	1.607	34.649	27.743	36.3	2.338
2800	1.597	34.660	27.752	35.4	2.733	2800	1.579	34.654	27.749	35.8	2.383	2800	1.579	34.654	27.749	35.8	2.383
2900	1.576	34.663	27.756	35.1	2.778	2900	1.537	34.660	27.756	35.0	2.428	2900	1.537	34.660	27.756	35.0	2.428
3000	1.557	34.666	27.760	34.7	2.823	3000	1.509	34.665	27.763	34.5	2.472	3000	1.509	34.665	27.763	34.5	2.472
3100	1.535	34.670	27.765	34.3	2.867	3100	1.488	34.668	27.766	34.1	2.516	3100	1.488	34.668	27.766	34.1	2.516
3200	1.521	34.673	27.768	33.9	2.911	3200	1.468	34.671	27.770	33.7	2.560	3200	1.468	34.671	27.770	33.7	2.560
3300	1.505	34.676	27.772	33.6	2.955	3300	1.442	34.673	27.772	33.5	2.603	3300	1.442	34.673	27.772	33.5	2.603
3400	1.496	34.678	27.774	33.4	2.999	3400	1.444	34.674	27.773	33.5	2.647	3400	1.444	34.674	27.773	33.5	2.647
3500	1.492	34.679	27.775	33.3	3.044	3500	1.465	34.675	27.774	33.4	2.691	3500	1.465	34.675	27.774	33.4	2.691
3600	1.482	34.681	27.777	33.1	3.088	3600	1.467	34.675	27.774	33.4	2.735	3600	1.467	34.675	27.774	33.4	2.735
3700	1.477	34.683	27.779	32.9	3.132	3700	1.469	34.676	27.774	33.3	2.779	3700	1.469	34.676	27.774	33.3	2.779
3800	1.477	34.684	27.780	32.8	3.176	3800	1.476	34.677	27.775	33.3	2.824	3800	1.476	34.677	27.775	33.3	2.824
3900	1.472	34.685	27.781	32.7	3.221	3900	1.477	34.678	27.775	33.2	2.869	3900	1.477	34.678	27.775	33.2	2.869
4000	1.469	34.686	27.782	32.6	3.265	4000	1.478	34.678	27.775	33.3	2.914	4000	1.478	34.678	27.775	33.3	2.914
4100	1.472	34.687	27.783	32.5	3.310	4100	1.478	34.680	27.777	33.1	2.960	4100	1.478	34.680	27.777	33.1	2.960
4200	1.474	34.688	27.784	32.5	3.355	4200	1.476	34.681	27.778	33.0	3.005	4200	1.476	34.681	27.778	33.0	3.005
4300	1.477	34.688	27.783	32.5	3.400	4300	1.473	34.682	27.779	32.9	3.051	4300	1.473	34.682	27.779	32.9	3.051
4400	1.479	34.689	27.784	32.4	3.446	4400	1.478	34.683	27.779	32.9	3.097	4400	1.478	34.683	27.779	32.9	3.097
4500	1.483	34.690	27.784	32.4	3.491	4500	1.481	34.683	27.779	32.9	3.143						

RV THOMAS WASHINGTON

INDOPAC LEG I

93

LATITUDE		LONGITUDE		MO/DAY/YR		MESSENGER		TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES		
34 58.2N		146 01. E		4/26/76		2356		0506	5900M	320	3KT	0	240 8 6		
Z	T	S	O2	P04	SI03	N02	N03	DT	Z	T	S	O2	SI0T	DT	DD
1	15.25	34.511	6.09	0.33	12.3	0.14	3.9	243.5	0	15.25	34.511	6.09	25.559	243.5	0.000
11	14.75	34.515	6.16	0.32	11.9	0.14	3.5	232.8	10	14.80	34.515	6.16	25.661	233.8	0.024
21	14.36	34.526	6.16	0.34	12.5	0.19	3.9	224.0	20	14.40	34.526	6.16	25.755	224.9	0.047
41	13.12	34.478	5.72	0.56	14.9	0.52	7.1	203.1	30	13.02	34.509	6.00	25.865	214.5	0.069
70	11.94	34.423	4.97	0.85	21.4	0.25	12.3	185.3	50	12.70	34.463	5.40	26.055	196.4	0.110
89	11.29	34.370	5.42	0.79	19.4	0.03	11.3	177.6	75	11.76	34.412	5.08	26.197	182.9	0.158
99	10.95	34.327	5.46	0.81	20.1	0.03	11.2	175.0	100	10.91	34.322	5.46	26.284	174.7	0.203
149	8.93	34.063	5.54	0.94	24.4	0.00	13.4	162.0	125	9.88	34.185	5.50	26.355	167.9	0.247
197	7.75	33.941	5.31	1.26	31.1	0.00	16.5	154.1	150	8.89	34.059	5.54	26.419	161.9	0.289
245	8.48	34.250	3.32	1.82	50.8	0.12	25.1	141.5	200	7.80	33.963	5.18	26.509	153.3	0.369
293	6.66	34.048	3.75	1.97	55.7	0.00	27.0	131.6	250	8.33	34.237	3.33	26.645	140.4	0.444
341	5.63	34.007	3.46	2.16	66.1	0.00	30.0	122.2	300	6.49	34.040	3.73	26.753	130.1	0.514
389	4.55	33.929	3.22	2.40	75.7	0.00	32.8	116.3	400	4.54	33.945	3.13	26.913	115.0	0.641
484	4.44	34.066	2.39	2.62	92.1	0.00	36.1	104.8	500	4.40	34.094	2.26	27.046	102.4	0.754
580	4.12	34.211	1.70	2.77	110.7	0.01	39.1	90.7	600	4.01	34.228	1.60	27.193	88.4	0.854
672	3.62	34.268	1.34	2.93	124.5	0.00	41.0	81.6	700	3.53	34.281	1.29	27.283	79.9	0.944
770	3.37	34.310	1.22	2.95	132.9	0.00	41.6	76.1	800	3.27	34.329	1.21	27.347	73.8	1.026
866	3.11	34.362	1.18	2.98	141.5	0.00	41.9	69.9	1000	2.86	34.414	1.10	27.453	63.8	1.176
896A	3.10	34.367	1.03	2.92	142.1	0.17	41.0	69.4	1200	2.51	34.475	1.08	27.531	56.4	1.309
962	2.94	34.399	1.11	3.02	148.1	0.00	42.2	65.6	1500	2.22	34.543	1.28	27.610	48.9	1.488
1162	2.56	34.463	1.07	3.02	162.8	0.00	42.5	57.6	1750	2.03	34.579	1.63	27.654	44.6	1.624
1396A	2.31	34.523	1.18	2.92	166.9	0.01	42.3	51.1	2000	1.87	34.608	2.07	27.689	41.4	1.751
1646A	2.10	34.565	1.47	2.92	170.2	0.00	41.6	46.3	2250	1.73	34.631	2.40	27.718	38.5	1.872
1896A	1.93	34.597	1.88	2.94	170.6	0.03	40.9	42.6	2500	1.62	34.648	2.67	27.740	36.5	1.987
2146A	1.79	34.621	2.27	2.78	170.7	0.01	39.8	39.8	2750	1.58	34.657	2.95	27.751	35.6	2.100
2397A	1.65	34.644	2.57	2.69	168.7	0.01	38.9	37.0	3000	1.53	34.665	3.17	27.761	34.6	2.211
2647A	1.60	34.652	2.81	2.60	166.4	0.03	38.3	36.1	3250	1.49	34.670	3.27	27.767	34.0	2.322
2896A	1.55	34.663	3.12	2.50	163.9	0.01	37.9	34.9	3500	1.48	34.675	3.40	27.772	33.5	2.433
3144A	1.50	34.667	3.21	2.52	161.8	0.06	37.0	34.2	3750	1.46	34.679	3.49	27.777	33.1	2.543
3394A	1.49	34.672	3.36	2.50	160.9	0.03	36.8	33.8	4000	1.45	34.681	3.56	27.779	32.9	2.655
3642A	1.47	34.678	3.45	2.49	159.3	0.03	36.5	33.2	4250	1.46	34.685	3.65	27.782	32.6	2.767
3889A	1.45	34.679	3.54	2.45	158.3	0.00	36.5	33.0	4500	1.46	34.687	3.76	27.783	32.6	2.881
4138A	1.46	34.683	3.59	2.45	157.5	0.01	36.3	32.8	4750	1.48	34.688	3.85	27.783	32.6	2.997
4385A	1.46	34.686	3.73	2.44	155.3	0.01	35.6	32.5	5000	1.51	34.691	3.90	27.783	32.5	3.114
4632A	1.47	34.686	3.79	2.43	154.3	0.00	35.7	32.6	5250	1.54	34.692	3.93	27.782	32.6	3.235
4878A	1.49	34.689	3.90	2.40	152.2	0.00	35.5	32.5	5500	1.56	34.693	3.95	27.780	32.8	3.357
5123A	1.522	34.691	3.91	2.39	150.4	0.01	35.5	32.6	5750	1.59	34.693	3.98	27.779	32.9	3.483
5367A	1.55	34.692	3.94	2.40	149.5	0.01	35.4	32.7							
5610A	1.570	34.692	3.96	2.42	148.1	0.01	35.2	32.8							
5852A	1.604	34.693	4.00		147.0	0.01	35.1	33.0							

RV THOMAS WASHINGTON

INDOPAC LEG I

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LATITUDE		LONGITUDE		MO/DAY/YR		MESSENGER		TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES		
34 53.6N		144 58.1E		4/27/76		1145		GMT	5807M	180	12KT				
Z	T	S	O2	P04	SI03	N02	N03	DT	Z	T	S	O2	SI0T	DT	DD
0	19.34	34.724	5.44					321.2	0	19.34	34.724	5.44	24.743	321.2	0.000
11	19.33	34.723	5.44					321.0	10	19.33	34.724	5.44	24.744	321.0	0.032
21	19.28	34.720	5.39					320.0	20	19.28	34.721	5.40	24.754	320.1	0.064
31	19.29	34.722	5.32					320.1	30	19.29	34.722	5.33	24.754	320.1	0.096
50	19.27	34.725	5.23					319.4	50	19.27	34.725	5.23	24.761	319.4	0.161
74	18.50	34.709	4.89					302.0	75	18.46	34.709	4.89	24.953	301.2	0.239
96	17.77	34.709	4.83					284.8	100	17.67	34.711	4.82	25.149	282.5	0.312
119	17.27	34.713	4.72					273.0	125	17.13	34.711	4.66	25.279	270.1	0.382
141	16.79	34.701	4.51					263.1	150	16.65	34.697	4.50	25.384	260.1	0.450
182	16.18	34.682	4.45					251.0	200	15.89	34.681	4.41	25.546	244.8	0.579
222	15.47	34.664	4.38					237.0	250	14.76	34.588	4.39	25.725	227.7	0.700
260	14.46	34.555	4.40					223.9	300	13.08	34.518	3.83	26.021	199.6	0.811
331	11.67	34.428	3.64					180.1	400	7.24	33.827	5.81	26.483	155.8	0.995
395	7.43	33.842	5.86					157.1	500	5.06	33.920	4.13	26.739	131.5	1.145
456	5.97	33.786	5.23					142.8	600	4.50	33.933	3.07	26.907	115.6	1.275
514	5.82	33.957	3.79					128.2	700	4.28	34.106	2.04	27.068	102.1	1.390
570	4.51	33.881	3.42					119.4	800	4.18	34.240	1.50	27.186	89.1	1.492
624	4.50	33.970	2.77					112.7							
680	4.30	34.051	2.14					104.5							
799	4.18	34.238	1.51					89.3							

930						INDOPAC LEG I						94					
LATITUDE	LONGITUDE	MO/DAY/YR	START TIME			LATITUDE	LONGITUDE	MO/DAY/YR	START TIME			LATITUDE	LONGITUDE	MO/DAY/YR	START TIME		
34 58.2N	146 01. E	04/26/76	2128 GMT			34 53.6N	144 58.1E	04/27/76	1339 GMT								
Z	T	S	SIGMA T	DT	DD	Z	T	S	SIGMA T	DT	DD	Z	T	S	SIGMA T	DT	DD
0	14.68	34.50	25.675	232.5	0.000	0	19.38	34.75	24.752	320.3	0.000	0	19.38	34.75	24.752	320.3	0.000
10	14.66	34.51	25.687	231.3	0.023	10	19.35	34.74	24.752	320.3	0.032	10	19.35	34.74	24.752	320.3	0.032
20	14.59	34.51	25.702	229.9	0.046	20	19.30	34.74	24.765	319.0	0.064	20	19.30	34.74	24.765	319.0	0.064
30	14.07	34.52	25.821	218.6	0.069	30	19.30	34.74	24.765	319.0	0.096	30	19.30	34.74	24.765	319.0	0.096
40	13.11	34.46	25.972	204.3	0.090	40	19.30	34.75	24.773	318.5	0.128	40	19.30	34.75	24.773	318.5	0.128
50	12.21	34.42	26.118	190.4	0.110	50	19.27	34.75	24.780	317.6	0.160	50	19.27	34.75	24.780	317.6	0.160
75	11.51	34.37	26.212	181.5	0.157	75	18.51	34.72	24.950	301.4	0.238	75	18.51	34.72	24.950	301.4	0.238
100	10.91	34.30	26.267	176.3	0.202	100	17.78	34.73	25.138	283.5	0.312	100	17.78	34.73	25.138	283.5	0.312
125	10.12	34.21	26.356	169.8	0.246	125	17.19	34.73	25.281	270.0	0.382	125	17.19	34.73	25.281	270.0	0.382
150	9.43	34.12	26.381	165.5	0.288	150	16.41	34.71	25.449	254.0	0.448	150	16.41	34.71	25.449	254.0	0.448
175	8.41	33.98	26.433	160.5	0.330	175	16.05	34.69	25.517	247.5	0.512	175	16.05	34.69	25.517	247.5	0.512
200	7.62	33.92	26.503	153.8	0.370	200	15.58	34.68	25.616	238.1	0.575	200	15.58	34.68	25.616	238.1	0.575
225	6.49	34.23	26.616	143.1	0.408	225	15.13	34.65	25.693	230.8	0.635	225	15.13	34.65	25.693	230.8	0.635
250	7.58	34.14	26.682	136.9	0.444	250	14.54	34.67	25.759	224.5	0.693	250	14.54	34.67	25.759	224.5	0.693
275	6.31	34.02	26.761	129.4	0.478	275	13.74	34.55	25.913	209.9	0.749	275	13.74	34.55	25.913	209.9	0.749
300	6.48	34.10	26.802	125.5	0.511	300	12.57	34.50	26.110	191.1	0.801	300	12.57	34.50	26.110	191.1	0.801
350	4.74	33.92	26.872	118.9	0.574	350	10.57	34.31	26.335	169.8	0.896	350	10.57	34.31	26.335	169.8	0.896
400	4.98	34.03	26.932	113.2	0.634	400	6.98	33.78	26.484	155.7	0.980	400	6.98	33.78	26.484	155.7	0.980
450	4.46	34.04	26.997	107.0	0.692	450	6.01	33.80	26.626	142.2	1.058	450	6.01	33.80	26.626	142.2	1.058
500	4.04	34.08	27.073	99.8	0.745	500	5.72	33.92	26.757	129.8	1.129	500	5.72	33.92	26.757	129.8	1.129
550	4.20	34.15	27.112	96.1	0.797	550	4.74	33.85	26.816	124.2	1.195	550	4.74	33.85	26.816	124.2	1.195
600	4.28	34.22	27.159	91.6	0.846	600	4.14	33.88	26.905	115.8	1.258	600	4.14	33.88	26.905	115.8	1.258
650	3.87	34.22	27.202	87.6	0.894	650	4.35	34.00	26.978	108.9	1.317	650	4.35	34.00	26.978	108.9	1.317
700	3.60	34.24	27.245	83.5	0.939	700	4.09	34.06	27.052	101.8	1.372	700	4.09	34.06	27.052	101.8	1.372
750	3.38	34.25	27.274	80.8	0.983	750	4.46	34.18	27.108	96.5	1.425	750	4.46	34.18	27.108	96.5	1.425
800	3.32	34.30	27.319	76.4	1.025	800	4.15	34.23	27.181	89.6	1.475	800	4.15	34.23	27.181	89.6	1.475
850	3.15	34.32	27.351	73.4	1.066	850	4.06	34.27	27.222	85.7	1.523	850	4.06	34.27	27.222	85.7	1.523
900	3.09	34.36	27.389	69.9	1.105	900	3.92	34.29	27.252	82.8	1.555	900	3.92	34.29	27.252	82.8	1.555
950	3.02	34.38	27.411	67.8	1.142												
1000	2.89	34.40	27.439	65.1	1.179												
1100	2.75	34.43	27.475	61.7	1.249												
1200	2.58	34.46	27.514	58.0	1.315												
1300	2.45	34.48	27.541	55.5	1.379												
1400	2.33	34.51	27.575	52.2	1.440												
1500	2.22	34.53	27.600	49.9	1.498												
1600	2.157	34.553	27.623	47.6	1.554												
1700	2.058	34.574	27.648	45.3	1.608												
1800	1.985	34.585	27.663	43.9	1.661												
1900	1.925	34.597	27.677	42.6	1.712												
2000	1.863	34.607	27.690	41.4	1.762												
2100	1.791	34.619	27.705	39.9	1.811												
2200	1.752	34.627	27.714	39.0	1.859												
2300	1.704	34.636	27.725	38.0	1.906												
2400	1.667	34.642	27.733	37.3	1.952												
2500	1.630	34.648	27.740	36.6	1.997												
2600	1.608	34.653	27.746	36.0	2.043												
2700	1.582	34.658	27.752	35.5	2.087												
2800	1.555	34.663	27.758	34.9	2.132												
2900	1.530	34.666	27.762	34.5	2.176												
3000	1.525	34.668	27.764	34.3	2.220												
3100	1.514	34.669	27.765	34.2	2.264												
3200	1.500	34.672	27.769	33.9	2.308												
3300	1.491	34.675	27.772	33.8	2.352												
3400	1.494	34.675	27.772	33.6	2.396												
3500	1.490	34.679	27.775	33.3	2.440												
3600	1.475	34.680	27.777	33.1	2.484												
3700	1.475	34.680	27.777	33.1	2.528												
3800	1.471	34.682	27.779	32.9	2.573												
3900	1.463	34.684	27.781	32.7	2.617												
4000	1.465	34.685	27.782	32.6	2.662												
4100	1.471	34.685	27.781	32.7	2.706												
4200	1.469	34.686	27.782	32.6	2.752												
4300	1.468	34.686	27.782	32.6	2.797												
4400	1.473	34.688	27.784	32.5	2.842												
4500	1.478	34.688	27.783	32.5	2.888												
4600	1.485	34.688	27.783	32.5	2.934												
4700	1.469	34.689	27.783	32.5	2.981												
4800	1.496	34.689	27.783	32.5	3.027												
4900	1.504	34.689	27.782	32.6	3.074												
5000	1.511	34.690	27.782	32.6	3.122												
5100	1.521	34.690	27.782	32.6	3.170												
5200	1.532	34.691	27.782	32.6	3.218												
5300	1.542	34.691	27.781	32.7	3.267												
5400	1.553	34.691	27.780	32.8	3.316												
5500	1.565	34.691	27.779	32.9	3.365												
5600	1.577	34.692	27.779	32.9	3.415												
5700	1.587	34.692	27.779	32.9	3.466												
5800	1.601	34.693	27.778	33.0	3.517												
5900	1.612	34.694	27.778	33.0	3.568												

RV THOMAS WASHINGTON

INDOPAC LEG 1

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	LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES					
	34 58.5N	144 00.5E	4/27/76	1451 2304	GMT	5717M		27KT	2	49					
Z	T	S	Q2	P04	S103	N02	N03	DT	Z	T	S	Q2	SIGT	DT	DD
1	17.61	34.733	5.86	0.09	0.6	0.00	0.0	279.4	0	17.61	34.733	5.86	25.182	279.4	0.000
11	17.59	34.733	5.88	0.09	0.6	0.00	0.0	278.9	10	17.59	34.733	5.88	25.186	279.0	0.028
21	17.58	34.740	5.87	0.08	0.6	0.00	0.1	278.2	20	17.58	34.741	5.87	25.194	278.2	0.056
26	17.60	34.740	5.87	0.07	0.5	0.00	0.3	278.6	30	17.59	34.742	5.86	25.193	278.3	0.084
50	17.53	34.745	5.81	0.07	0.5	0.03	0.3	276.6	50	17.53	34.745	5.81	25.211	276.6	0.140
75	17.31	34.749	5.59	0.12	2.2	0.34	1.0	271.3	75	17.31	34.749	5.59	25.267	271.3	0.209
99	17.24	34.755	5.50	0.10	2.6	0.60	1.5	269.3	100	17.24	34.755	5.50	25.289	269.2	0.277
124	17.19	34.755	5.51	0.12	2.8	0.67	1.6	268.1	125	17.19	34.755	5.51	25.301	268.1	0.345
149	17.11	34.756	5.45	0.17	4.0	0.19	2.8	266.3	150	17.11	34.756	5.45	25.321	266.2	0.413
197	16.91	34.751	5.34	0.21	3.1	0.36	1.7	262.1	200	16.90	34.750	5.34	25.366	261.9	0.548
244	16.77	34.748	5.34	0.20	3.9	0.11	2.4	259.2	250	16.76	34.748	5.35	25.397	259.0	0.681
292	16.67	34.744	5.40	0.20	4.1	0.05	2.4	257.2	300	16.67	34.746	5.37	25.417	257.0	0.815
388	16.23	34.727	4.89	0.36	6.1	0.03	6.2	248.8	400	16.07	34.716	4.82	25.532	246.0	1.077
481	14.50	34.601	4.36	0.73	13.7	0.02	11.0	221.4	500	14.00	34.566	4.29	25.871	213.9	1.320
575	11.85	34.421	4.07	1.15	24.5	0.02	16.9	183.8	600	11.14	34.369	4.02	26.279	175.2	1.528
667	9.38	34.253	3.83	1.53	36.9	0.02	22.5	154.8	700	8.69	34.222	3.64	26.578	146.7	1.702
760	7.56	34.183	3.21	1.97	55.5		28.9	133.4	800	6.79	34.170	2.92	26.815	124.3	1.850
852	5.86	34.164	2.53	2.42	74.0	0.01	34.7	113.2	1000	4.58	34.197	1.79	27.108	95.9	2.089
932A	4.62	34.183	1.87	2.64	99.9		36.3	97.9	1200	3.70	34.371	1.38	27.339	74.7	2.277
945	4.83	34.207	1.91	2.60	97.4	0.01	39.2	98.3	1500	2.76	34.453	1.16	27.492	60.1	2.508
1137	3.97	34.342	1.49	2.83	120.0	0.00	42.0	79.4	1750	2.38	34.517	1.26	27.575	52.2	2.672
1138A	3.93	34.338	1.46	2.83	121.9		40.7	79.3	2000	2.09	34.573	1.60	27.643	45.7	2.817
1384A	3.01	34.422	1.14	3.00	146.1		41.6	64.5	2250	1.90	34.603	2.07	27.683	42.0	2.949
1631A	2.56	34.484	1.18	3.03	159.9		42.8	56.0	2500	1.77	34.625	2.48	27.710	39.3	3.074
1878A	2.22	34.548	1.40	3.00	167.8		42.2	48.5	2750	1.67	34.645	2.70	27.733	37.1	3.194
2125A	1.98	34.590	1.83	2.88	170.1		41.5	43.5	3000	1.60	34.656	2.94	27.748	35.8	3.310
2371A	1.83	34.611	2.29	2.72	167.8		40.3	40.8	3250	1.56	34.667	3.14	27.760	34.7	3.424
2618A	1.73	34.637	2.62	2.67	166.4		40.0	38.1	3500	1.52	34.677	3.27	27.770	33.7	3.537
2864A	1.63	34.650	2.76	2.65	165.7		38.8	36.4	3750	1.50	34.678	3.43	27.774	33.4	3.649
3108A	1.58	34.659	3.08	2.64	164.5		38.2	35.4	4000	1.48	34.681	3.52	27.777	33.1	3.762
3354A	1.54	34.671	3.17	2.63	162.4		37.7	34.2	4250	1.47	34.685	3.64	27.781	32.7	3.875
3598A	1.51	34.679	3.34	2.60	161.0		36.7	33.4	4500	1.48	34.687	3.66	27.782	32.6	3.990
3843A	1.49	34.677	3.47	2.53	159.6		36.2	33.4	4750	1.50	34.690	3.73	27.782	32.6	4.106
4086A	1.48	34.682	3.55	2.52	158.2		36.1	33.0	5000	1.52	34.691	3.82	27.782	32.6	4.224
4339A	1.47	34.686	3.67	2.52	156.6		34.8	32.6	5250	1.54	34.693	3.86	27.782	32.6	4.345
4576A	1.49	34.687	3.66	2.41	155.5		35.4	32.7	5500	1.57	34.694	3.88	27.781	32.7	4.468
4818A	1.507	34.690	3.76	2.50	152.8		34.9	32.5							
5061A	1.52	34.690	3.84	2.47	151.4		34.5	32.6							
5302A	1.545	34.693	3.86	2.45	150.5		34.3	32.6							
5543A	1.573	34.698	3.89	2.47	150.1		34.2	32.7							

RV THOMAS WASHINGTON

INDOPAC LEG 1

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	LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES					
	35 01.8N	142 57.3E	4/28/76	0515	GMT	5709M	30U	12KT	2	040 10 5					
Z	T	S	Q2	P04	S103	N02	N03	DT	Z	T	S	Q2	SIGT	DT	DD
1	17.66	34.742	5.78					279.9	0	17.66	34.742	5.78	25.177	279.9	0.000
11	17.61	34.742	5.79					278.7	10	17.61	34.743	5.79	25.188	278.8	0.028
22	17.59	34.741	5.79					278.3	20	17.59	34.742	5.79	25.193	278.3	0.056
31	17.58	34.740	5.79					278.2	30	17.58	34.741	5.79	25.194	278.2	0.084
51	17.49	34.739	5.75					276.2	50	17.50	34.740	5.75	25.214	276.3	0.139
76	17.25	34.750	5.44					269.9	75	17.26	34.750	5.45	25.279	270.1	0.208
100	17.21	34.758	5.45					268.4	100	17.21	34.758	5.45	25.297	268.4	0.276
125	17.07	34.755	5.37					265.4	125	17.07	34.755	5.37	25.328	265.4	0.344
150	16.99	34.749	5.36					264.1	150	16.99	34.749	5.36	25.343	264.1	0.411
201	16.83	34.741	5.24					261.0	200	16.83	34.742	5.24	25.374	261.1	0.545
249	16.69	34.737	5.15					258.2	250	16.69	34.738	5.15	25.405	258.2	0.679
298	16.59	34.741	5.23					255.7	300	16.59	34.742	5.22	25.432	255.6	0.811
398	15.92	34.695	4.69					244.4	400	15.89	34.694	4.68	25.555	243.9	1.072
496	14.19	34.573	4.27					217.2	500	14.11	34.570	4.25	25.849	216.0	1.315
597	11.96	34.426	3.99					185.4	600	11.87	34.419	3.99	26.182	184.3	1.529
694	9.04	34.208	4.00					152.9	700	8.88	34.197	3.99	26.529	151.4	1.711
793	6.73	34.058	3.65					131.8	800	6.60	34.055	3.59	26.750	130.4	1.864
890	5.22	34.052	2.71					114.2	1000	4.36	34.174	1.81	27.113	95.8	2.111
987	4.44	34.160	1.88					97.8	1200	3.47	34.329	1.18	27.328	75.6	2.301
1185	3.54	34.325	1.23					76.6							

950						INDOPAC LEG I						96					
LATITUDE		LONGITUDE		MO/DAY/YR		START TIME		LATITUDE		LONGITUDE		MO/DAY/YR		START TIME			
34 58.5N		144 00.5E		04/27/76		1722 GMT		35 01.8N		142 57.3E		04/28/76		0426 GMT			
Z	T	S	SIGMA T	DT	DD			Z	T	S	SIGMA T	DT	DD				
0	17.65	34.75	25.185	279.1	0.000			0	17.64	34.74	25.180	279.5	0.000				
10	17.61	34.74	25.187	278.9	0.028			10	17.62	34.74	25.185	279.1	0.028				
20	17.46	34.74	25.224	275.4	0.056			20	17.59	34.74	25.192	278.4	0.056				
30	17.40	34.75	25.246	273.3	0.083			30	17.57	34.74	25.197	277.9	0.084				
40	17.39	34.74	25.241	273.8	0.111			40	17.54	34.75	25.212	276.5	0.112				
50	17.37	34.75	25.253	272.6	0.138			50	17.59	34.74	25.241	275.8	0.139				
75	17.26	34.76	25.287	269.4	0.206			75	17.23	34.76	25.294	268.7	0.208				
100	17.22	34.76	25.297	268.5	0.274			100	17.15	34.76	25.313	266.9	0.275				
125	17.14	34.75	25.308	267.4	0.342			125	17.04	34.76	25.340	264.4	0.343				
150	17.03	34.76	25.342	264.2	0.410			150	16.96	34.76	25.358	262.6	0.410				
175	16.96	34.76	25.358	262.6	0.477			175	16.88	34.75	25.370	261.5	0.476				
200	16.85	34.75	25.377	260.8	0.544			200	16.82	34.75	25.384	260.2	0.543				
225	16.75	34.75	25.400	258.6	0.610			225	16.76	34.75	25.398	258.8	0.610				
250	16.68	34.75	25.417	257.0	0.677			250	16.70	34.74	25.404	258.2	0.676				
275	16.63	34.75	25.428	255.9	0.743			275	16.64	34.74	25.418	256.9	0.743				
300	16.56	34.74	25.437	255.1	0.809			300	16.58	34.75	25.440	255.8	0.809				
350	16.48	34.74	25.456	253.3	0.941			350	16.31	34.73	25.488	250.3	0.940				
400	16.07	34.72	25.535	245.8	1.072			400	16.00	34.71	25.543	245.0	1.070				
450	15.11	34.65	25.675	232.5	1.198			450	15.14	34.64	25.683	231.8	1.195				
500	14.11	34.58	25.859	215.0	1.316			500	14.15	34.58	25.850	215.9	1.314				
550	12.40	34.46	26.112	190.9	1.425			550	12.86	34.48	26.038	198.1	1.424				
600	11.12	34.37	26.283	174.7	1.523			600	11.87	34.42	26.183	184.2	1.527				
650	9.84	34.28	26.438	160.1	1.613			650	10.71	34.32	26.318	171.4	1.623				
700	8.58	34.21	26.587	145.9	1.696			700	9.07	34.21	26.510	153.2	1.711				
750	7.38	34.18	26.742	131.2	1.772			750	7.70	34.11	26.641	140.8	1.791				
800	6.26	34.15	26.870	119.0	1.840			800	6.54	34.06	26.763	129.2	1.865				
850	5.59	34.16	26.962	110.3	1.903			850	5.63	34.04	26.863	119.7	1.932				
900	5.16	34.18	27.029	103.9	1.961			900	5.11	34.06	26.940	112.4	1.995				
950	4.78	34.23	27.113	96.1	2.016			950	4.77	34.14	27.043	102.7	2.054				
1000	4.34	34.24	27.169	90.7	2.068			1000	4.52	34.17	27.115	95.8	2.108				
1100	3.95	34.33	27.281	80.1	2.163			1100	3.93	34.25	27.220	85.9	2.208				
1200	3.43	34.36	27.357	72.9	2.249			1200	3.51	34.32	27.317	76.7	2.299				
1300	3.17	34.40	27.413	67.6	2.328												
1400	2.93	34.44	27.467	62.5	2.402												
1500	2.66	34.46	27.507	58.7	2.472												
1600	2.558	34.486	27.536	55.9	2.538												
1700	2.428	34.510	27.567	53.0	2.601												
1800	2.285	34.536	27.599	49.9	2.662												
1900	2.188	34.553	27.621	47.9	2.720												
2000	2.093	34.574	27.645	45.6	2.775												
2100	2.007	34.590	27.665	43.7	2.829												
2200	1.941	34.602	27.680	42.3	2.881												
2300	1.870	34.616	27.696	40.7	2.932												
2400	1.819	34.625	27.708	39.7	2.982												
2500	1.761	34.633	27.718	38.6	3.030												
2600	1.727	34.640	27.726	37.9	3.078												
2700	1.686	34.648	27.736	37.0	3.125												
2800	1.659	34.652	27.741	36.5	3.172												
2900	1.626	34.657	27.748	35.9	3.218												
3000	1.606	34.662	27.753	35.4	3.264												
3100	1.582	34.666	27.758	34.9	3.309												
3200	1.559	34.669	27.762	34.5	3.354												
3300	1.544	34.671	27.765	34.2	3.399												
3400	1.531	34.674	27.768	33.9	3.444												
3500	1.521	34.676	27.770	33.7	3.489												
3600	1.517	34.677	27.772	33.6	3.534												
3700	1.505	34.680	27.775	33.3	3.579												
3800	1.502	34.681	27.776	33.2	3.624												
3900	1.491	34.684	27.779	32.9	3.669												
4000	1.485	34.685	27.780	32.8	3.713												
4100	1.486	34.685	27.780	32.8	3.759												
4200	1.485	34.686	27.781	32.7	3.804												
4300	1.482	34.687	27.782	32.6	3.849												
4400	1.491	34.689	27.783	32.5	3.895												
4500	1.499	34.688	27.782	32.6	3.941												
4600	1.499	34.689	27.783	32.6	3.988												
4700	1.503	34.690	27.783	32.5	4.034												
4800	1.505	34.689	27.782	32.6	4.081												
4900	1.510	34.690	27.783	32.6	4.128												
5000	1.518	34.691	27.783	32.5	4.176												
5100	1.524	34.692	27.783	32.5	4.224												
5200	1.536	34.692	27.782	32.6	4.272												
5300	1.546	34.692	27.781	32.7	4.320												
5400	1.556	34.692	27.781	32.7	4.370												
5500	1.567	34.693	27.781	32.7	4.419												
5572	1.575	34.694	27.781	32.7	4.455												

RV THOMAS WASHINGTON

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LATITUDE		LONGITUDE		MO/DAY/YR		MESSENGER		TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES		
35 03. N		142 01.4E		4/28/76		1243 1736		GMT	6984M	170	11KT				
Z	T	S	Q2	P04	SI03	N02	N03	DT	Z	T	S	Q2	SIGT	DT	DD
1	18.30	34.767	5.55	0.15	3.3	0.00	0.0	293.0	0	18.30	34.767	5.55	25.039	293.0	0.000
10	18.30	34.767	5.39	0.13	3.3	0.00	0.0	293.0	10	18.30	34.767	5.39	25.039	293.0	0.029
21	18.22	34.767	5.52	0.14	3.3	0.00	0.0	291.1	20	18.23	34.767	5.50	25.056	291.4	0.059
30	18.15	34.767	5.56	0.08	3.3	0.00	0.0	289.5	30	18.15	34.767	5.56	25.076	289.5	0.088
39	18.09	34.766	5.57	0.11	3.3	0.00	0.0	288.1	50	17.66	34.758	5.63	25.190	278.6	0.145
48	17.77	34.761	5.65	0.10	3.3	0.00	0.0	281.0	75	16.86	34.740	5.56	25.367	261.8	0.213
58	17.21	34.747	5.65	0.09	3.3	0.00	0.0	269.2	100	16.72	34.739	5.43	25.398	258.8	0.279
72	16.89	34.744	5.57	0.18	9	0.29	0.8	262.2	125	16.63	34.736	5.19	25.416	257.1	0.344
95	16.74	34.739	5.49	0.20	4.2	0.55	0.5	259.2	150	16.56	34.738	5.12	25.435	255.3	0.409
118	16.66	34.736	4.79	0.20	3.9	0.55	1.6	257.6	200	16.48	34.741	5.39	25.456	253.3	0.539
141	16.58	34.735	5.07	0.20	4.2	0.43	1.9	255.9	250	16.35	34.729	5.11	25.477	251.3	0.669
165	16.49	34.740	5.40	0.20	4.4	0.14	2.8	253.5	300	15.84	34.692	4.64	25.565	242.9	0.796
229	16.43	34.736	5.36	0.20	5.2	0.20	3.0	252.5	400	14.48	34.604	4.36	25.797	220.9	1.038
272	16.21	34.717	4.82	0.40	8.1	0.00	5.6	249.1	500	12.91	34.488	4.22	26.033	198.5	1.260
358	14.94	34.634	4.45	0.58	12.2	0.00	9.4	228.0	600	10.14	34.310	3.67	26.409	162.8	1.454
445	13.96	34.563	4.29	0.81	16.8	0.00	11.8	213.3	700	7.18	34.211	2.83	26.794	126.3	1.610
530	12.25	34.442	4.15	1.09	23.2	0.00	15.2	189.5	800	5.28	34.211	2.10	27.039	103.0	1.735
711	6.86	34.206	2.73	2.17	68.7	0.00	30.3	122.4	1000	3.84	34.259	1.49	27.235	84.4	1.940
902	4.29	34.222	1.66	2.79	109.5	0.00	38.9	91.5	1200	3.29	34.365	1.21	27.373	71.3	2.113
936A	4.12	34.220	1.65	2.81	114.1		38.9	90.0	1500	2.59	34.476	1.17	27.526	56.9	2.331
1099	3.51	34.336	1.23	3.00	132.0		41.0	75.5	1750	2.29	34.530	1.25	27.594	50.4	2.487
1186A	3.33	34.359	1.21	2.95	138.0		41.4	72.1	2000	2.04	34.580	1.58	27.653	44.8	2.628
1435A	2.69	34.459	1.17	3.01	157.7		42.4	59.0	2250	1.88	34.610	1.89	27.690	41.3	2.758
1683A	2.37	34.514	1.17	3.00	167.0		42.8	52.2	2500	1.76	34.631	2.35	27.716	38.8	2.881
1934A	2.10	34.568	1.51	2.93	172.0		41.8	46.1	2750	1.65	34.646	2.77	27.736	37.0	3.000
2180A	1.92	34.602	1.76	2.88	171.2		40.5	42.2	3000	1.59	34.658	3.01	27.751	35.5	3.115
2428A	1.79	34.626	1.62	2.70	172.2		39.5	39.4	3250	1.55	34.668	3.13	27.761	34.6	3.229
2676A	1.68	34.641	2.67	2.65	167.9		38.9	37.5	3500	1.51	34.674	3.22	27.770	33.8	3.341
2923A	1.60	34.654	2.95	2.69	165.3		37.8	35.9	3750	1.49	34.682	3.33	27.777	33.0	3.453
3170A	1.56	34.665	3.10	2.63	164.8		37.6	34.8	4000	1.48	34.685	3.50	27.780	32.8	3.564
3415A	1.52	34.671	3.19	2.60	162.1		37.0	34.1	4250	1.48	34.686	3.53	27.781	32.7	3.678
3709A	1.49	34.681	3.30	2.57	160.9		36.4	33.1	4500	1.49	34.689	3.56	27.783	32.5	3.792
4003A	1.48	34.684	3.50	2.52	158.7		36.2	32.8	4750	1.50	34.690	3.67	27.782	32.6	3.908
4296A	1.48	34.686	3.02	2.52	156.8		35.9	32.7	5000	1.52	34.690	3.78	27.781	32.8	4.026
4586A	1.49	34.690	3.57	2.48	154.9		35.5	32.4	5250	1.55	34.691	3.79	27.780	32.8	4.147
4878A	1.51	34.688	3.75	2.48	153.7		34.8	32.7	5500	1.58	34.693	3.68	27.779	32.9	4.271
5167A	1.541	34.690	3.83	2.50	153.1		35.0	32.8	5750	1.61	34.693	3.71	27.777	33.1	4.398
5454A	1.577	34.692	3.68	2.49	151.3		34.7	32.9							
5740A	1.610	34.692	3.70	2.47	150.5		34.6	33.1							
5834A	1.622	34.695	3.84	2.47	150.0		34.5	33.0							

RV THOMAS WASHINGTON

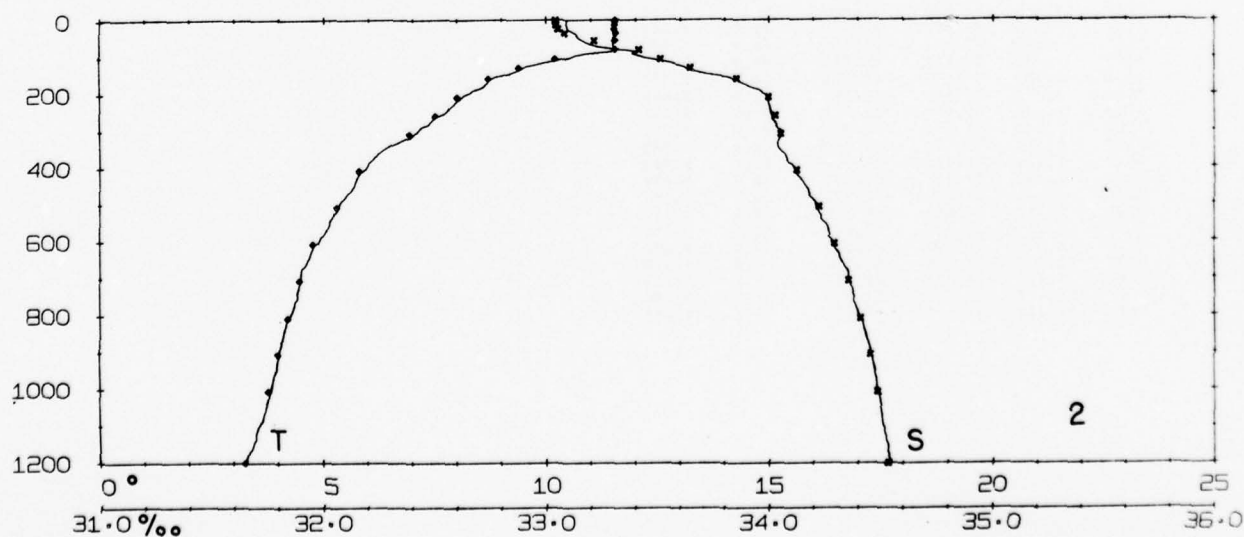
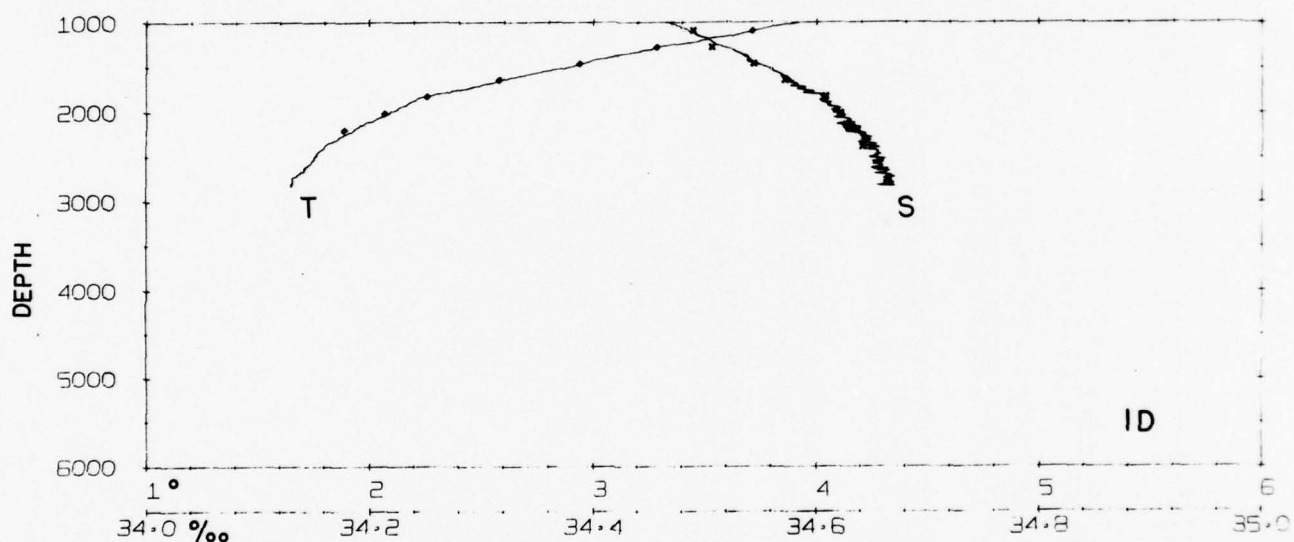
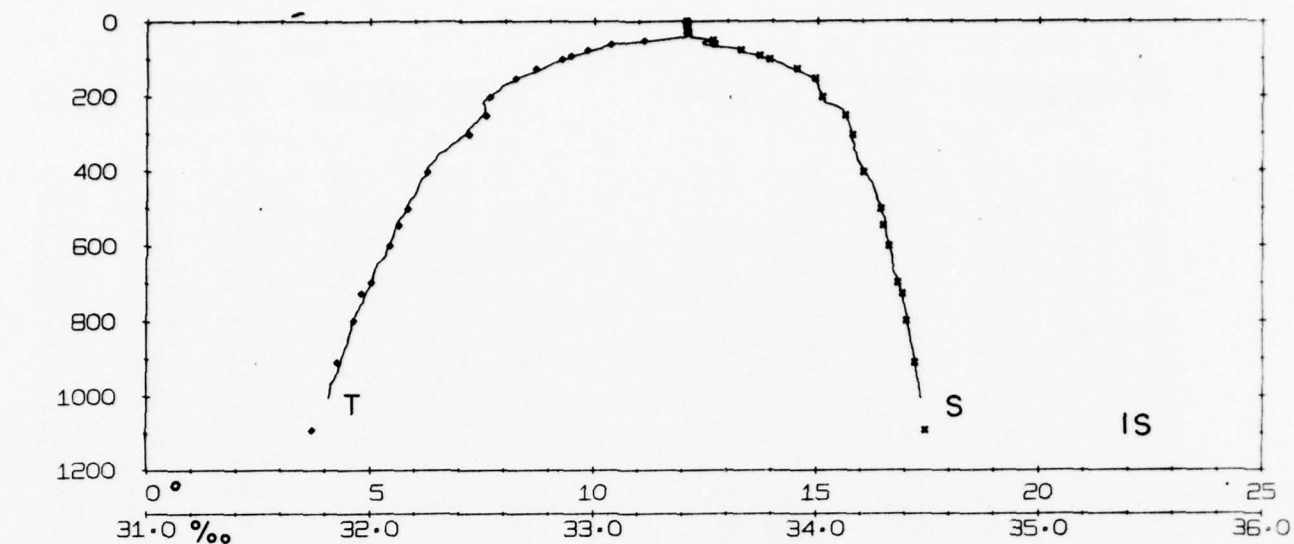
INDOPAC LEG 1

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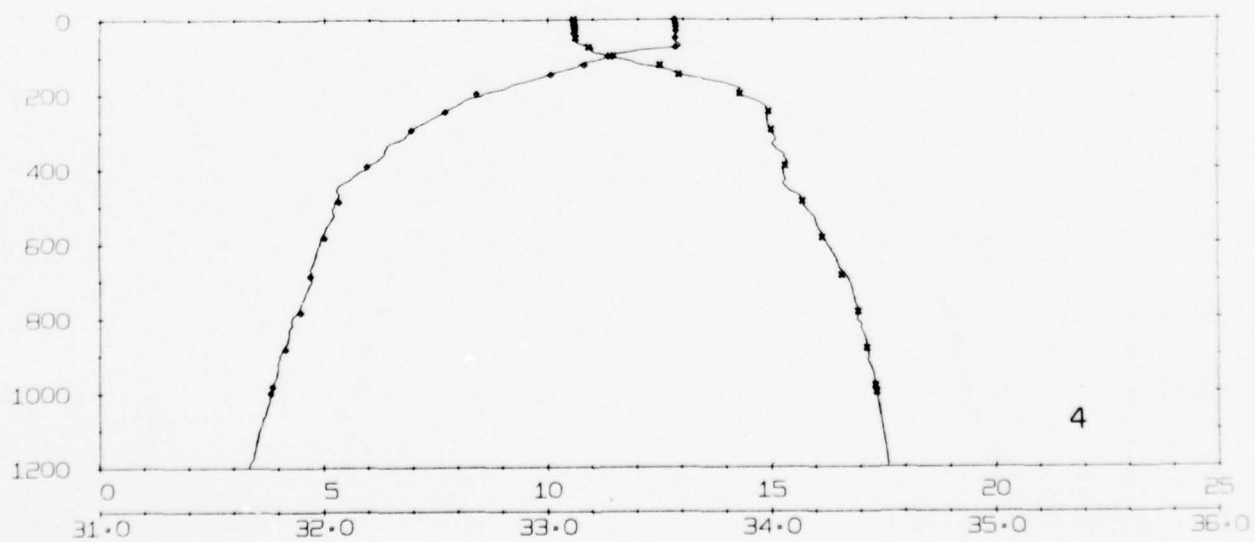
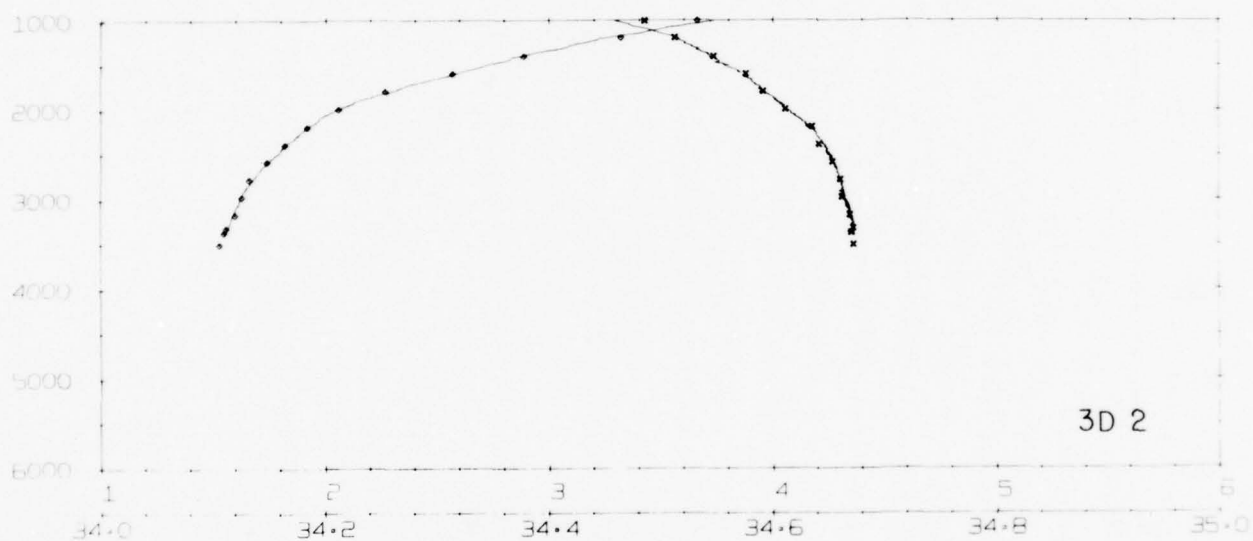
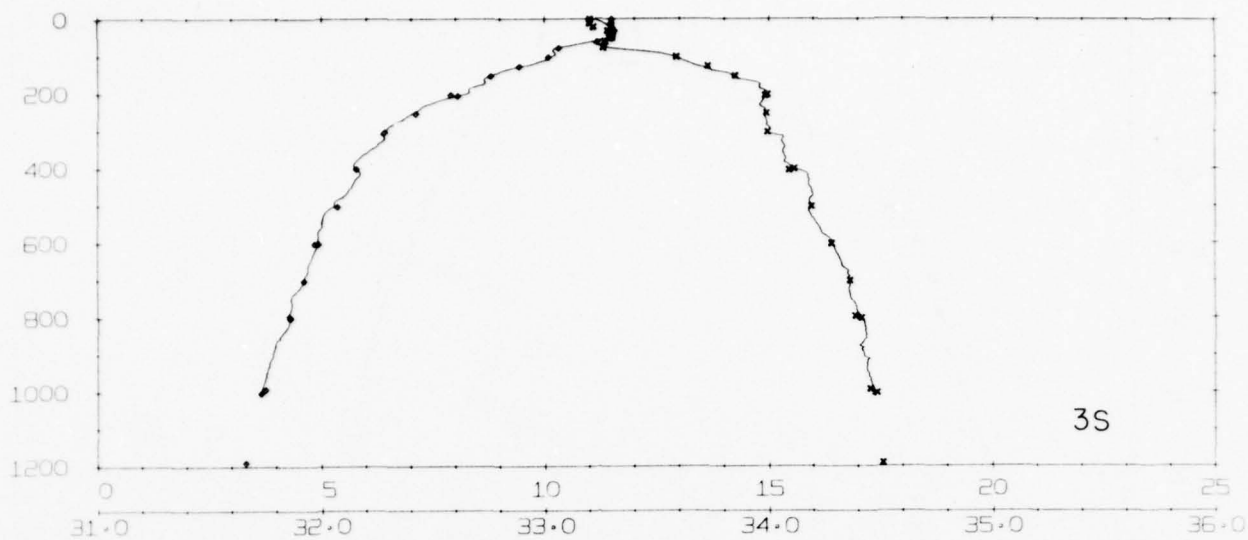
LATITUDE		LONGITUDE		MO/DAY/YR		MESSENGER		TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES		
35 02.4N		140 59.4E		4/29/76		0927 GMT			2309M	220	3KT				
Z	T	S	Q2	P04	SI03	N02	N03	DT	Z	T	S	Q2	SIGT	DT	DD
0	20.59	34.705	5.29					353.8	0	20.59	34.705	5.29	24.400	353.8	0.000
10	20.57	34.707	5.28					353.2	10	20.57	34.707	5.28	24.407	353.2	0.035
20	20.54	34.709	5.23					352.3	20	20.54	34.709	5.23	24.417	352.3	0.071
31	20.56	34.711	5.18					352.6	30	20.56	34.711	5.18	24.413	352.6	0.106
51	20.38	34.713	5.16					347.9	50	20.39	34.713	5.16	24.458	348.3	0.176
76	19.92	34.717	5.10					336.0	75	19.94	34.717	5.10	24.581	336.6	0.263
99	19.53	34.723	5.03					325.9	100	19.51	34.724	5.03	24.697	325.5	0.346
123	19.20	34.725	5.06					317.7	125	19.19	34.727	5.05	24.782	317.4	0.427
146	19.04	34.734	4.96					313.1	150	18.91	34.732	4.93	24.858	310.2	0.507
190	17.31	34.701	4.62					274.8	200	16.97	34.699	4.60	25.308	267.3	0.654
231	16.10	34.690	4.55					248.6	250	15.76	34.675	4.49	25.571	242.4	0.785
271	15.41	34.649	4.40					236.8	300	14.76	34.610	4.25	25.742	226.1	0.906
345	13.55	34.536	3.98					207.2	400	11.43	34.430	3.56	26.273	175.7	1.116
407	11.18	34.419	3.51					172.1	500	8.40	34.304	2.98	26.688	136.3	1.282
464	10.03	34.363	3.27					157.0	600	6.34	34.261	2.36	26.947	111.7	1.414
515	7.72	34.247	2.65					127.9	700	5.19	34.268	2.02	27.094	97.9	1.527
562	6.71	34.259	2.47					116.5							
604	6.3	34.262	2.36					111.3							
645	6.0	34.264	2.30					107.3							
717	4.87	34.267	1.89					94.2							

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LATITUDE	LONGITUDE	MO/DAY/YR	START TIME			LATITUDE	LONGITUDE	MO/DAY/YR	START TIME			LATITUDE	LONGITUDE	MO/DAY/YR	START TIME		
35 03. N	142 01.4E	04/28/76	1026 GMT			35 02.4N	140 59.4E	04/29/76	0838 GMT			35 02.4N	140 59.4E	04/29/76	0838 GMT		
Z	T	S	SIGMA T	DT	DD	Z	T	S	SIGMA T	DT	DD	Z	T	S	SIGMA T	DT	DD
0	18.53	34.76	24.976	299.0	0.000	0	20.56	34.70	24.404	353.4	0.000	0	20.56	34.70	24.404	353.4	0.000
10	18.40	34.75	25.001	296.6	0.030	10	20.57	34.71	24.409	353.0	0.035	10	20.57	34.71	24.409	353.0	0.035
20	17.82	34.74	25.136	283.7	0.059	20	20.57	34.72	24.417	352.2	0.071	20	20.57	34.72	24.417	352.2	0.071
30	17.61	34.73	25.180	279.6	0.087	30	20.54	34.73	24.432	350.7	0.106	30	20.54	34.73	24.432	350.7	0.106
40	17.53	34.74	25.207	277.0	0.115	40	20.45	34.73	24.456	348.4	0.141	40	20.45	34.73	24.456	348.4	0.141
50	17.38	34.77	25.266	271.4	0.143	50	20.37	34.73	24.478	346.4	0.176	50	20.37	34.73	24.478	346.4	0.176
75	17.29	34.77	25.287	269.3	0.211	75	20.11	34.73	24.547	339.9	0.262	75	20.11	34.73	24.547	339.9	0.262
100	17.08	34.76	25.330	265.3	0.278	100	19.50	34.73	24.706	324.7	0.346	100	19.50	34.73	24.706	324.7	0.346
125	16.93	34.76	25.366	261.9	0.345	125	19.18	34.74	24.796	316.1	0.427	125	19.18	34.74	24.796	316.1	0.427
150	16.72	34.75	25.407	257.9	0.411	150	18.95	34.74	24.855	310.5	0.507	150	18.95	34.74	24.855	310.5	0.507
175	16.61	34.75	25.433	255.5	0.477	175	18.38	34.73	24.990	297.6	0.584	175	18.38	34.73	24.990	297.6	0.584
200	16.55	34.75	25.447	254.1	0.542	200	17.00	34.67	25.280	270.0	0.656	200	17.00	34.67	25.280	270.0	0.656
225	16.50	34.75	25.459	253.0	0.607	225	16.12	34.68	25.493	249.8	0.723	225	16.12	34.68	25.493	249.8	0.723
250	16.45	34.74	25.463	252.7	0.672	250	15.78	34.67	25.563	243.2	0.787	250	15.78	34.67	25.563	243.2	0.787
275	16.38	34.74	25.479	251.1	0.737	275	15.29	34.65	25.657	234.2	0.848	275	15.29	34.65	25.657	234.2	0.848
300	16.24	34.73	25.504	248.8	0.802	300	14.83	34.62	25.735	226.8	0.908	300	14.83	34.62	25.735	226.8	0.908
350	15.67	34.69	25.603	239.3	0.929	350	13.43	34.53	25.961	205.3	1.020	350	13.43	34.53	25.961	205.3	1.020
400	14.99	34.64	25.716	228.6	1.051	400	11.33	34.40	26.268	176.1	1.120	400	11.33	34.40	26.268	176.1	1.120
450	14.19	34.58	25.842	216.7	1.168	450	10.13	34.36	26.451	158.8	1.209	450	10.13	34.36	26.451	158.8	1.209
500	13.03	34.50	26.019	199.8	1.279	500	8.12	34.25	26.688	136.3	1.287	500	8.12	34.25	26.688	136.3	1.287
550	12.10	34.45	26.163	186.2	1.382	550	6.73	34.25	26.887	117.5	1.355	550	6.73	34.25	26.887	117.5	1.355
600	10.80	34.38	26.349	168.5	1.477	600	6.33	34.26	26.948	111.7	1.416	600	6.33	34.26	26.948	111.7	1.416
650	8.95	34.28	26.584	146.2	1.563	650	6.03	34.26	26.986	108.0	1.476	650	6.03	34.26	26.986	108.0	1.476
700	7.55	34.23	26.757	129.8	1.638	700	4.99	34.26	27.112	96.1	1.531	700	4.99	34.26	27.112	96.1	1.531
750	6.31	34.24	26.935	112.9	1.704	750	4.60	34.29	27.180	89.6	1.581	750	4.60	34.29	27.180	89.6	1.581
800	5.40	34.22	27.033	103.6	1.763	800	4.40	34.32	27.226	85.3	1.629	800	4.40	34.32	27.226	85.3	1.629
850	4.56	34.16	27.082	99.0	1.818	850	4.09	34.34	27.275	80.7	1.674	850	4.09	34.34	27.275	80.7	1.674
900	4.34	34.21	27.145	93.0	1.870												
950	3.98	34.24	27.207	87.1	1.919												
1000	3.77	34.29	27.268	81.4	1.966												
1100	3.51	34.33	27.325	75.9	2.053												
1200	3.16	34.38	27.398	69.0	2.133												
1300	2.89	34.43	27.463	62.9	2.208												
1400	2.72	34.45	27.494	59.9	2.277												
1500	2.54	34.48	27.533	56.2	2.344												
1600	2.413	34.509	27.567	53.0	2.407												
1700	2.301	34.530	27.593	50.5	2.467												
1800	2.192	34.552	27.620	48.0	2.525												
1900	2.116	34.567	27.638	46.3	2.581												
2000	2.040	34.582	27.656	44.6	2.635												
2100	1.971	34.595	27.672	43.1	2.688												
2200	1.899	34.608	27.688	41.5	2.739												
2300	1.836	34.618	27.701	40.3	2.789												
2400	1.788	34.628	27.712	39.2	2.838												
2500	1.741	34.638	27.724	38.1	2.886												
2600	1.703	34.642	27.730	37.6	2.933												
2700	1.669	34.649	27.738	36.8	2.980												
2800	1.642	34.653	27.743	36.3	3.026												
2900	1.608	34.658	27.750	35.7	3.072												
3000	1.586	34.663	27.755	35.1	3.118												
3100	1.565	34.666	27.759	34.8	3.163												
3200	1.545	34.669	27.763	34.4	3.208												
3300	1.531	34.672	27.767	34.1	3.252												
3400	1.524	34.675	27.769	33.8	3.297												
3500	1.513	34.677	27.772	33.6	3.342												
3600	1.507	34.678	27.773	33.5	3.386												
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3900	1.488	34.683	27.779	32.9	3.521												
4000	1.483	34.684	27.780	32.8	3.566												
4100	1.485	34.685	27.780	32.8	3.611												
4200	1.484	34.686	27.781	32.7	3.656												
4300	1.483	34.687	27.782	32.6	3.702												
4400	1.487	34.688	27.783	32.6	3.747												
4500	1.490	34.688	27.782	32.6	3.793												
4600	1.493	34.689	27.783	32.5	3.840												
4700	1.498	34.689	27.783	32.6	3.886												
4800	1.506	34.691	27.784	32.5	3.933												
4900	1.514	34.690	27.782	32.6	3.980												
5000	1.524	34.690	27.782	32.7	4.028												
5100	1.536	34.691	27.781	32.7	4.076												
5200	1.545	34.691	27.781	32.7	4.124												
5300	1.557	34.691	27.780	32.8	4.173												
5400	1.568	34.691	27.779	32.9	4.223												
5500	1.581	34.692	27.779	32.9	4.272												
5600	1.590	34.692	27.778	33.0	4.323												
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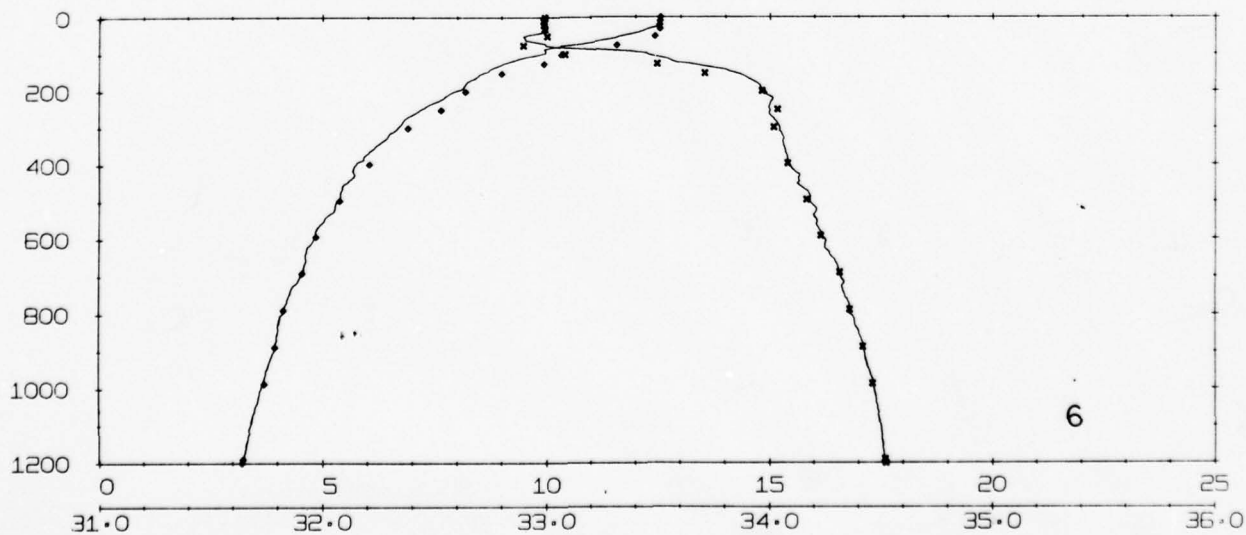
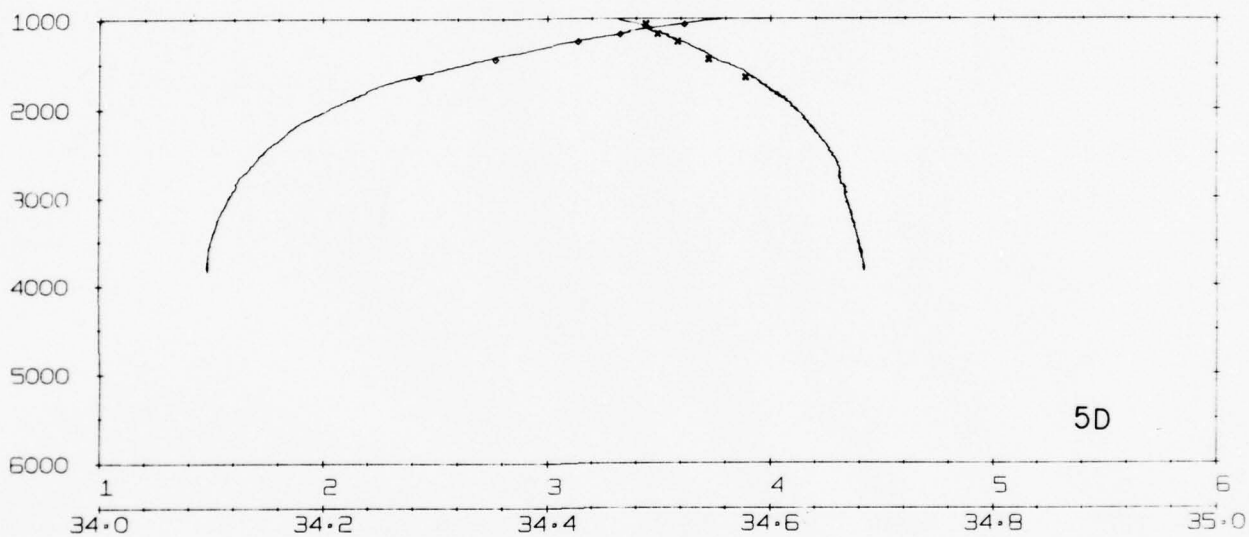
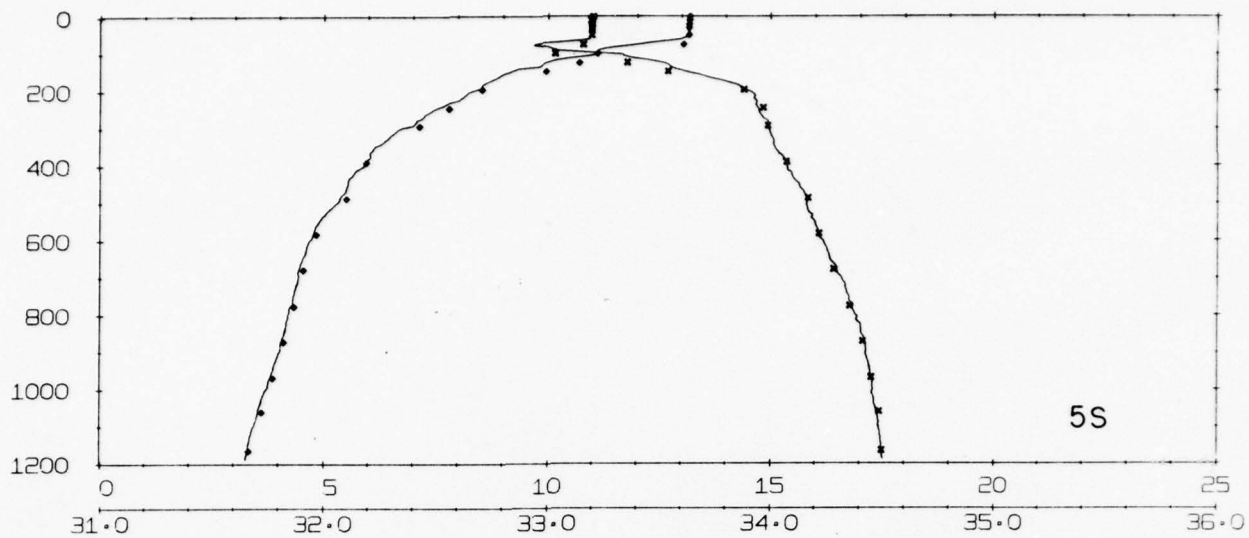
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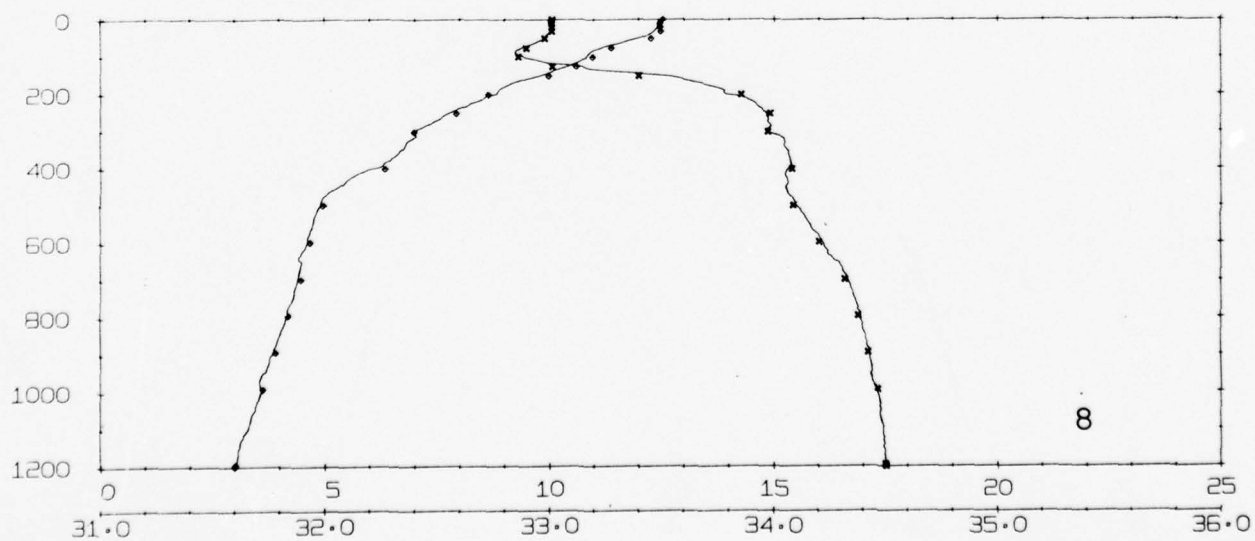
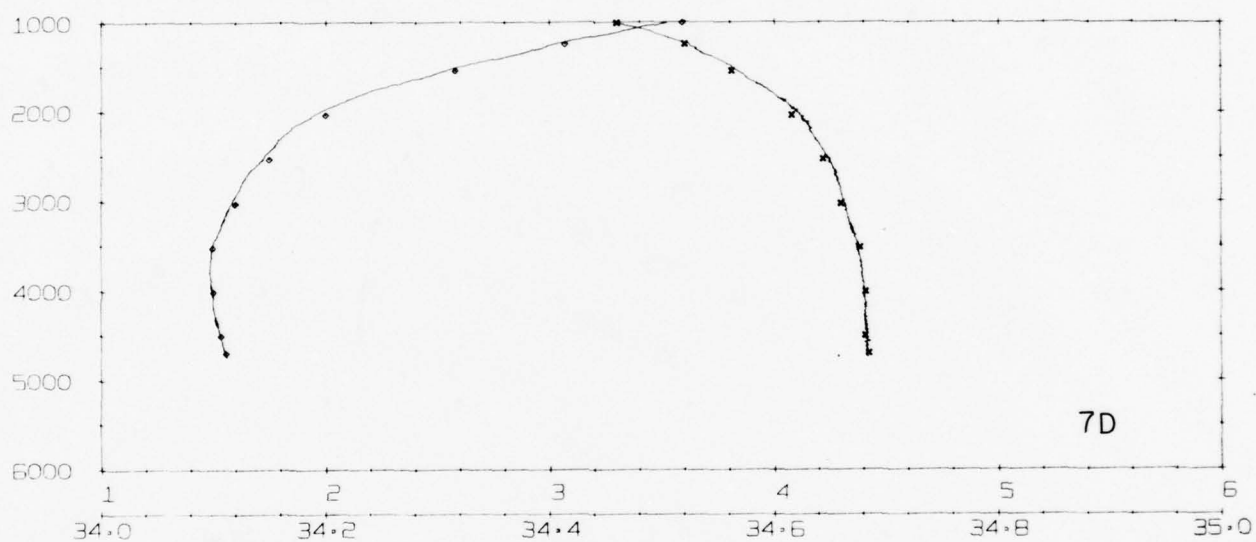
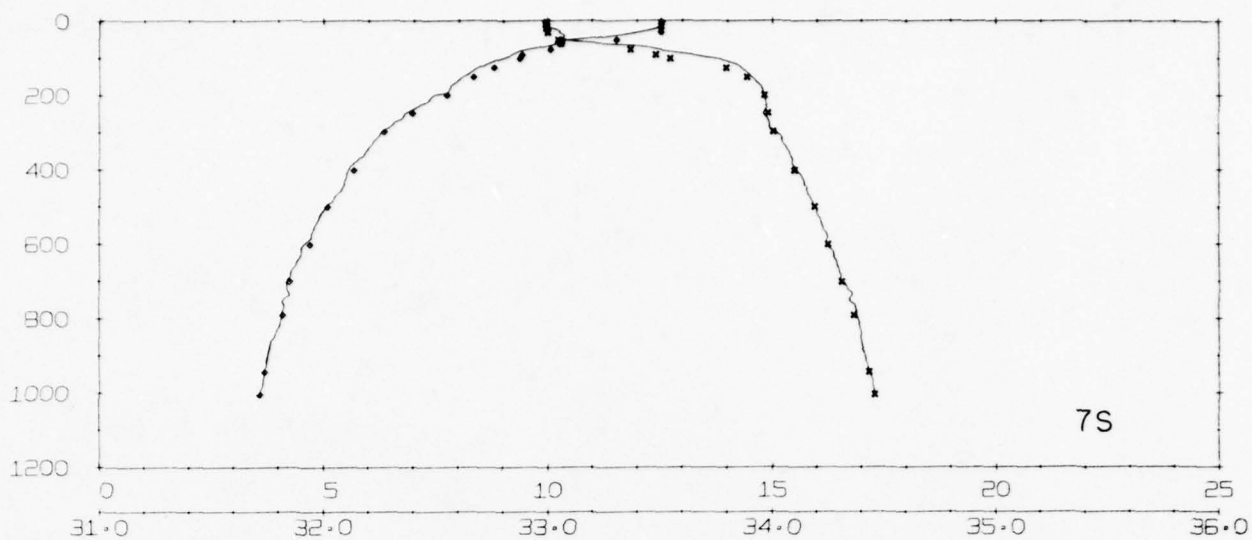
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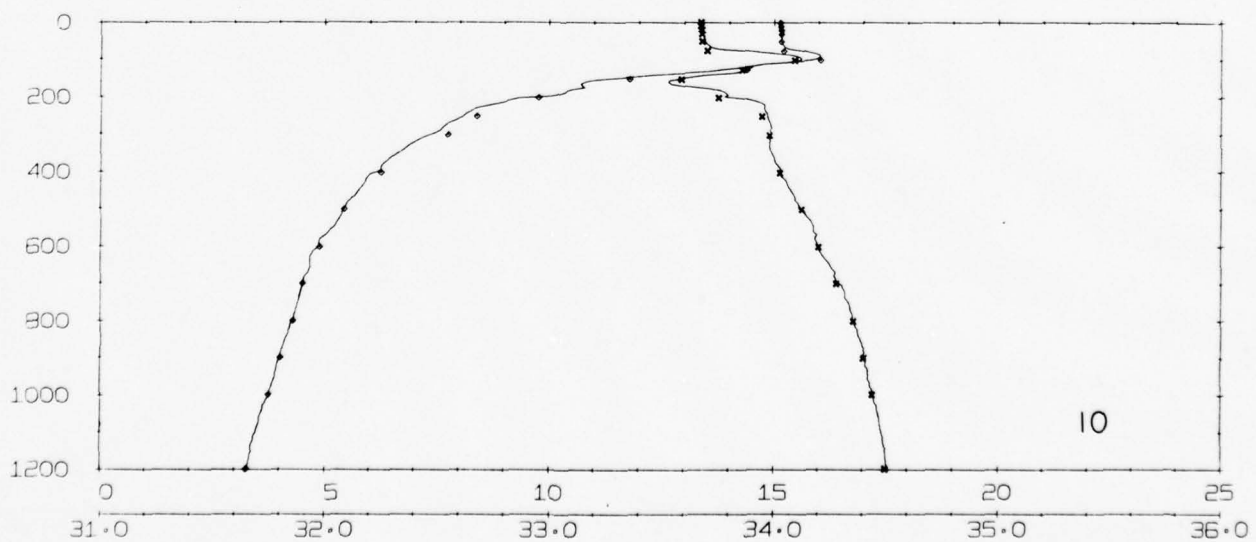
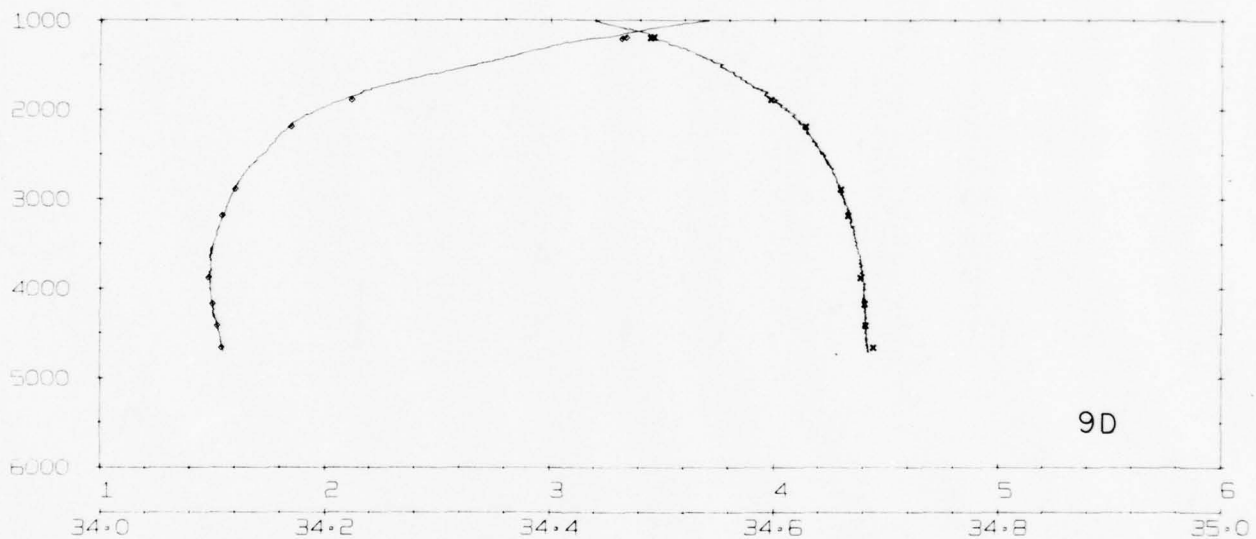
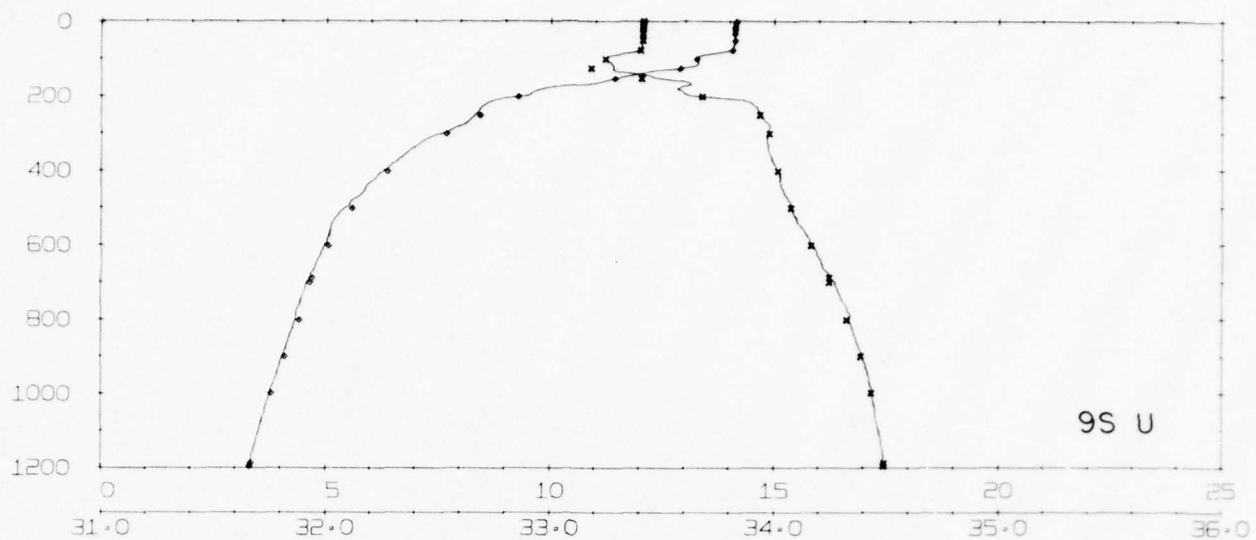
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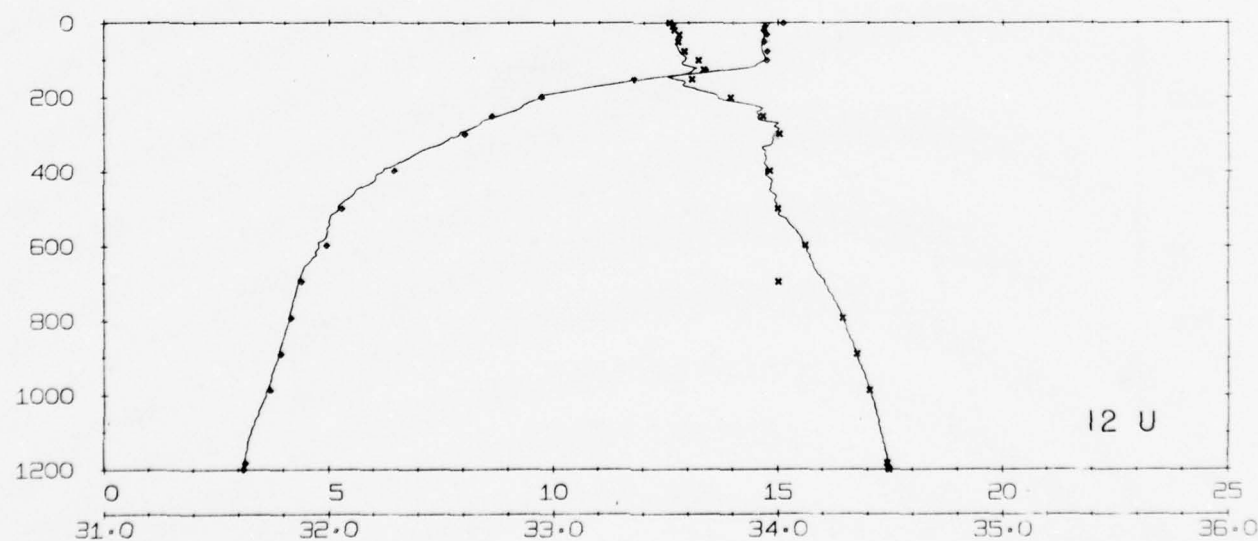
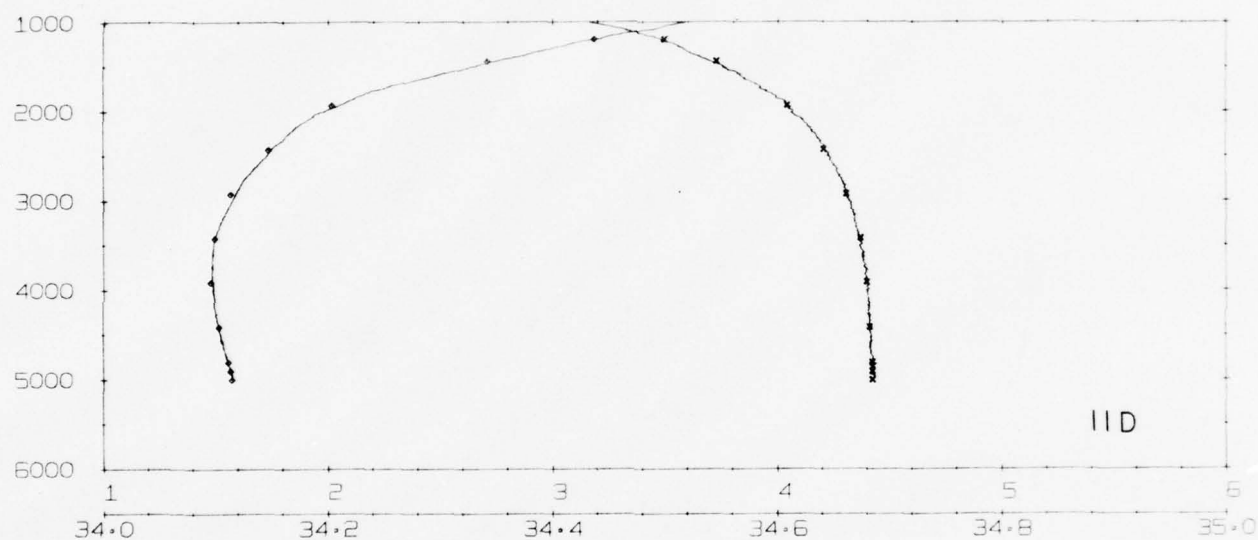
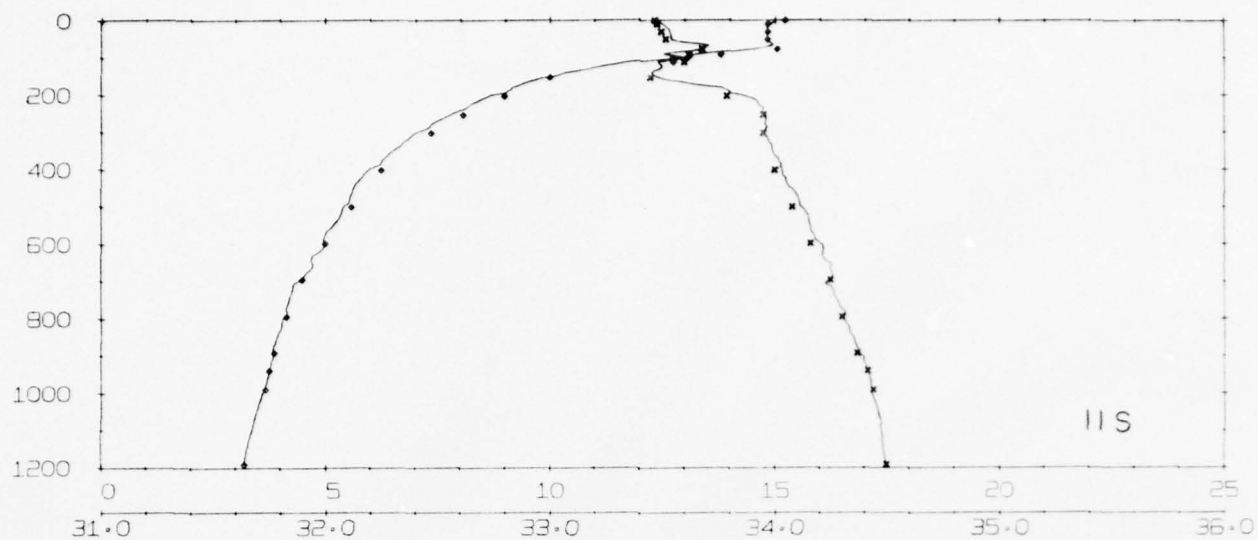
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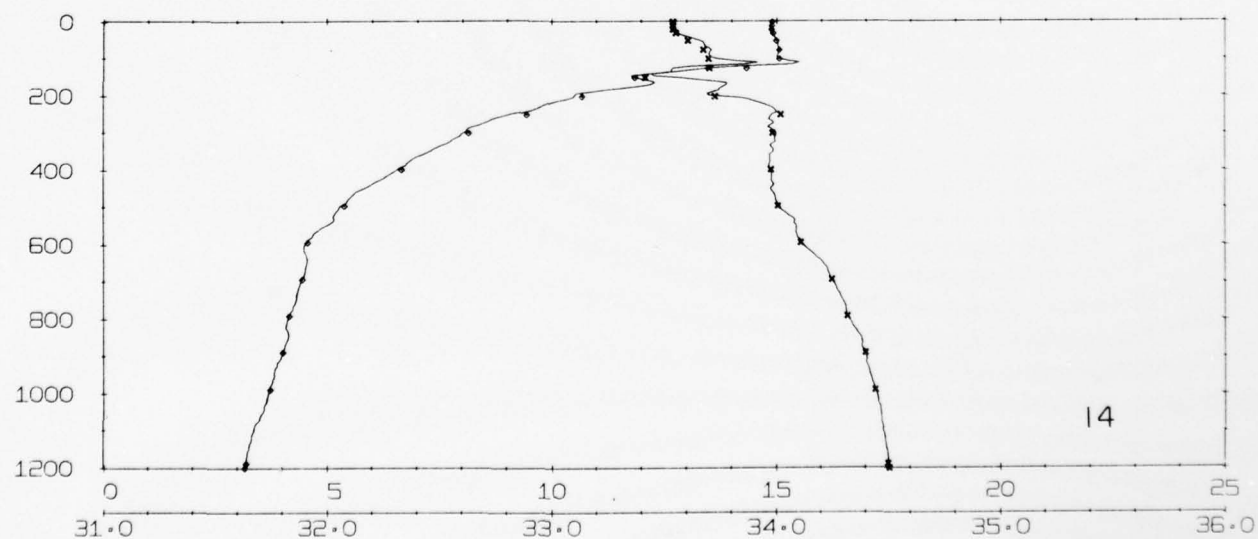
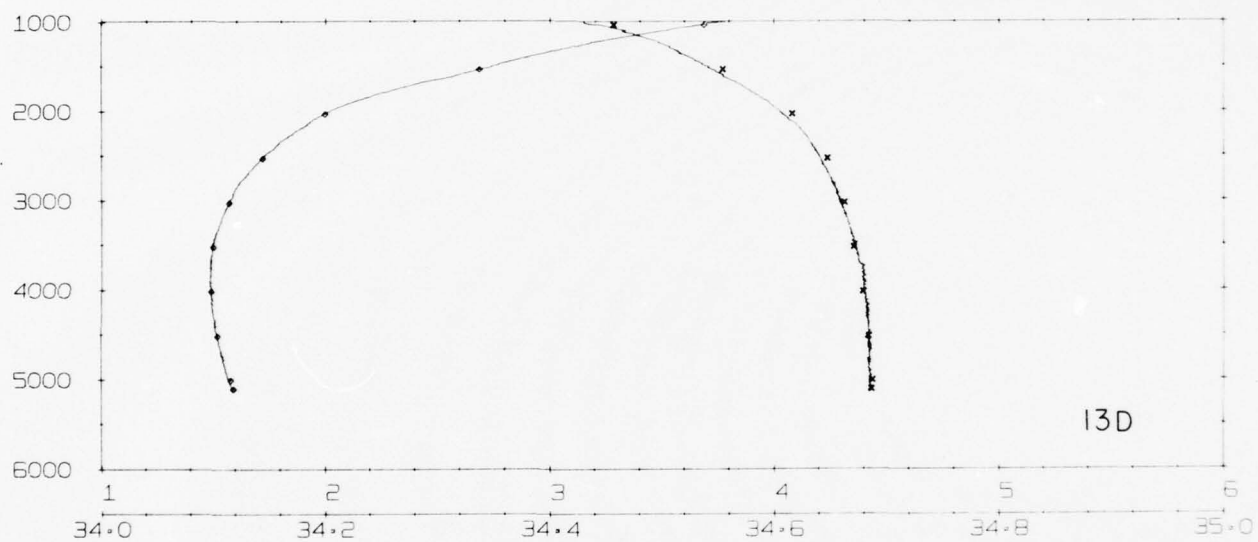
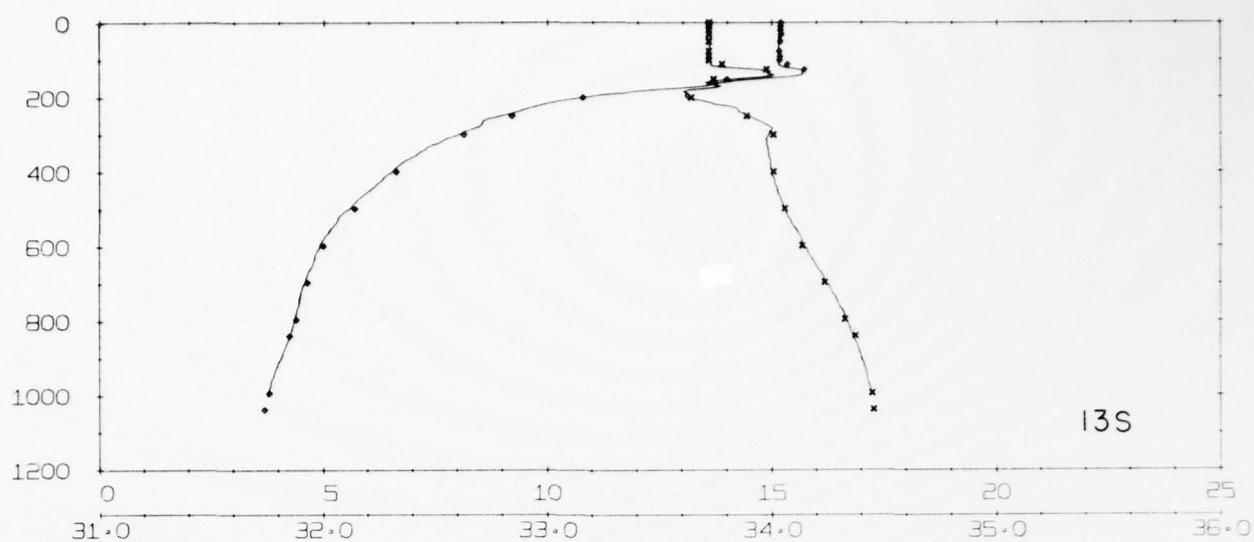
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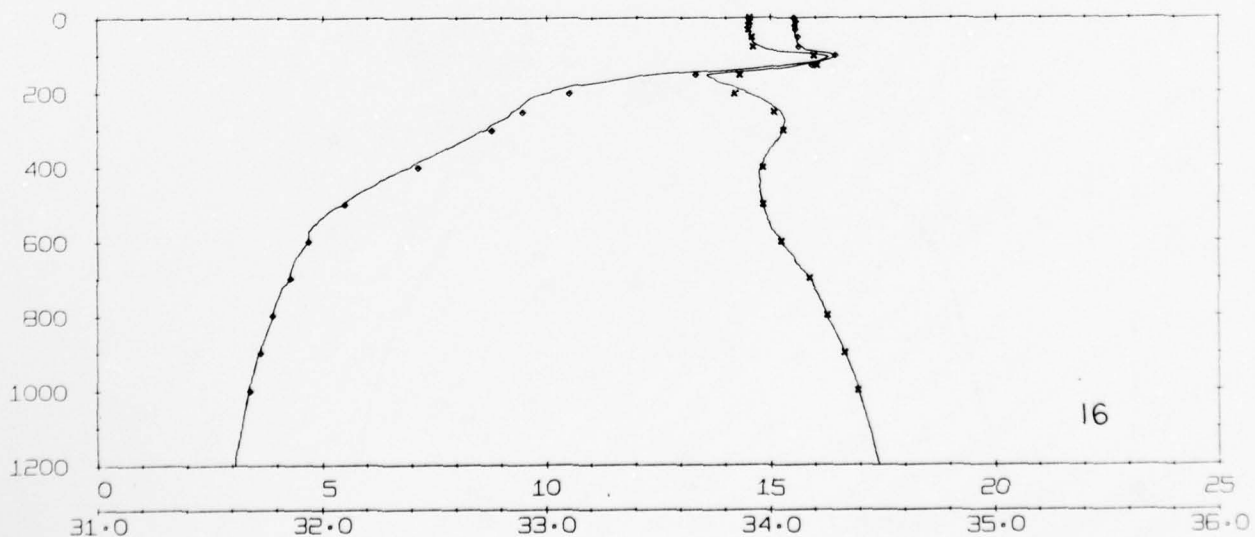
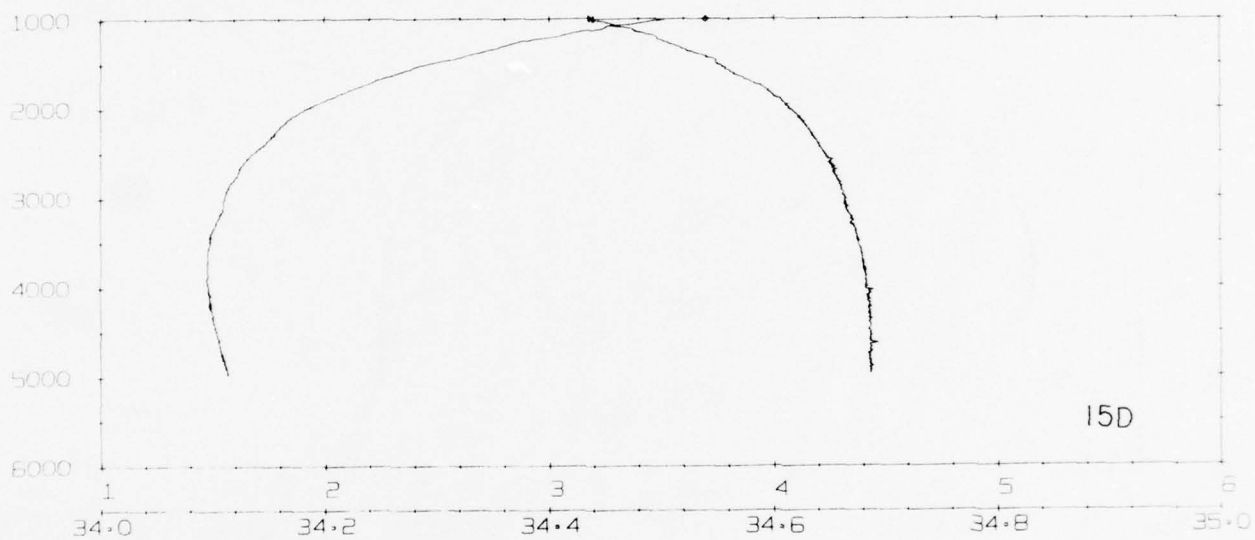
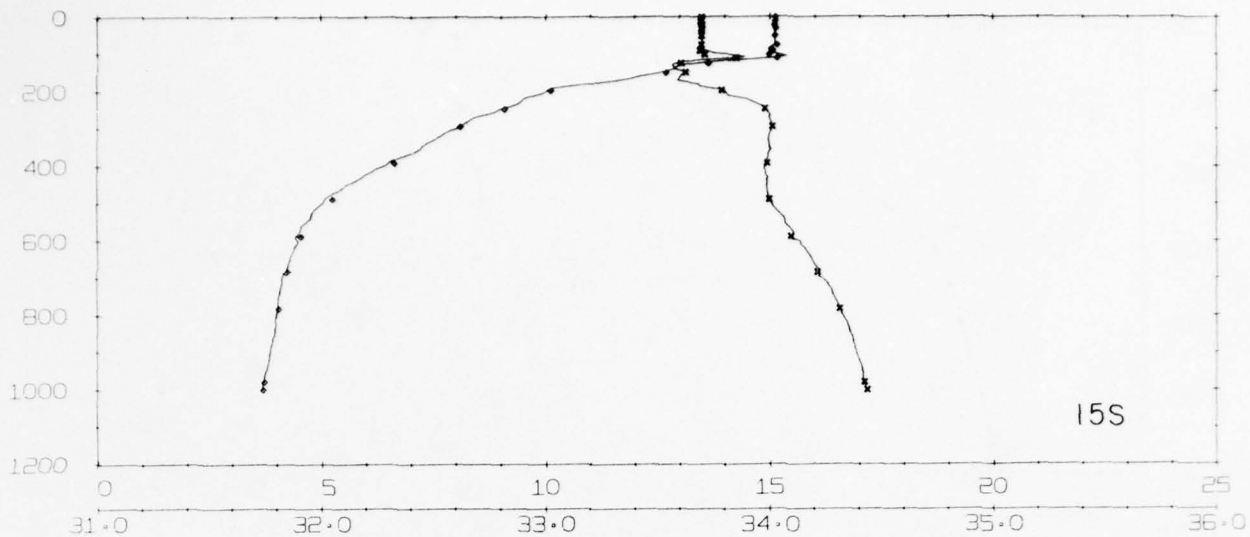
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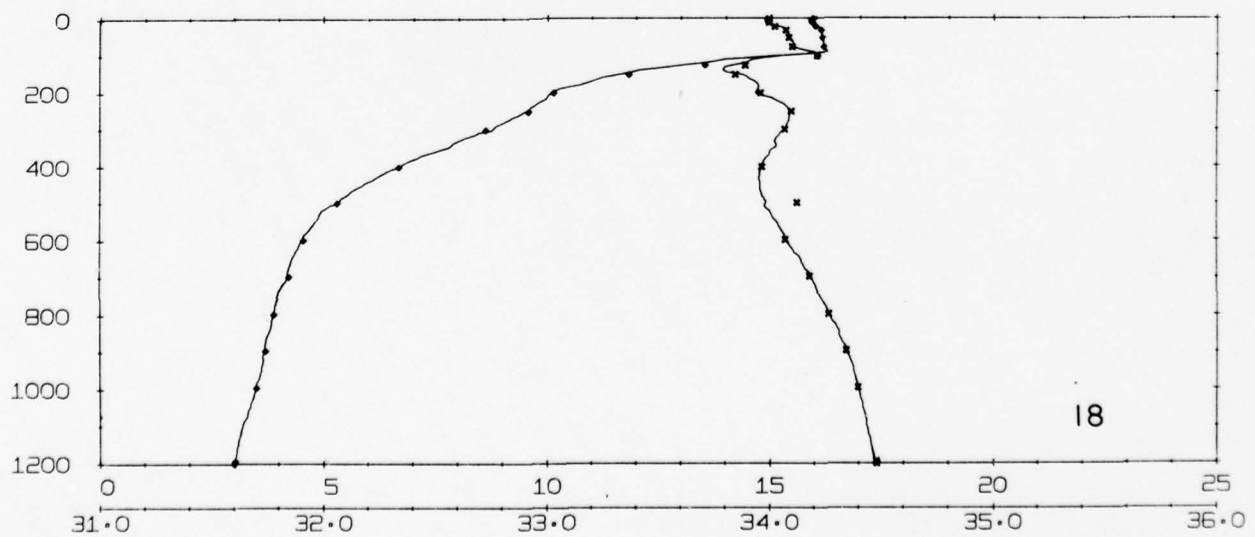
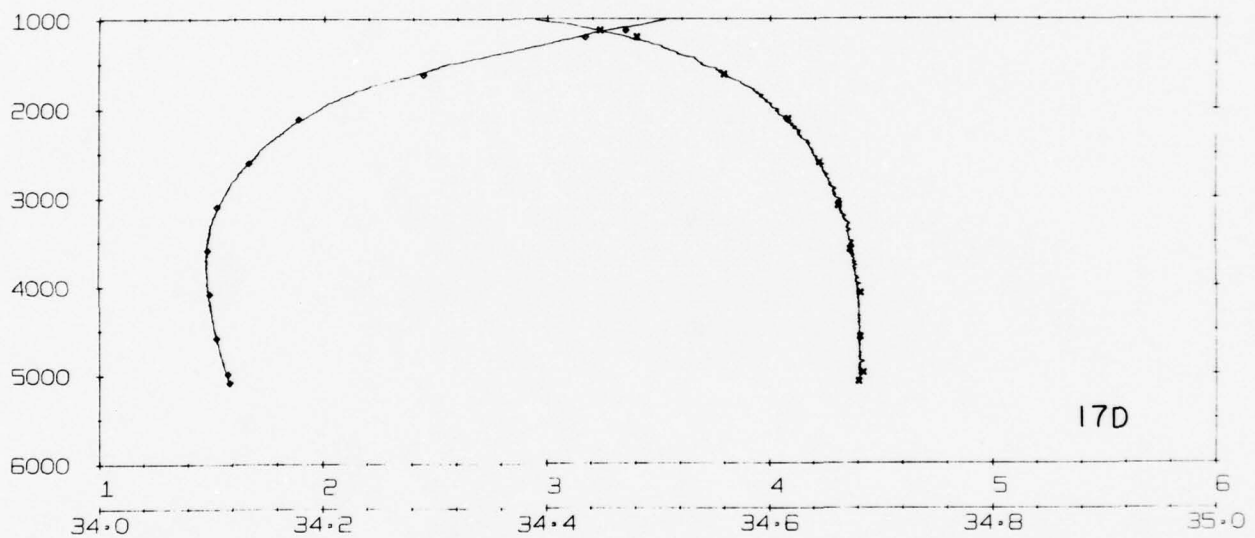
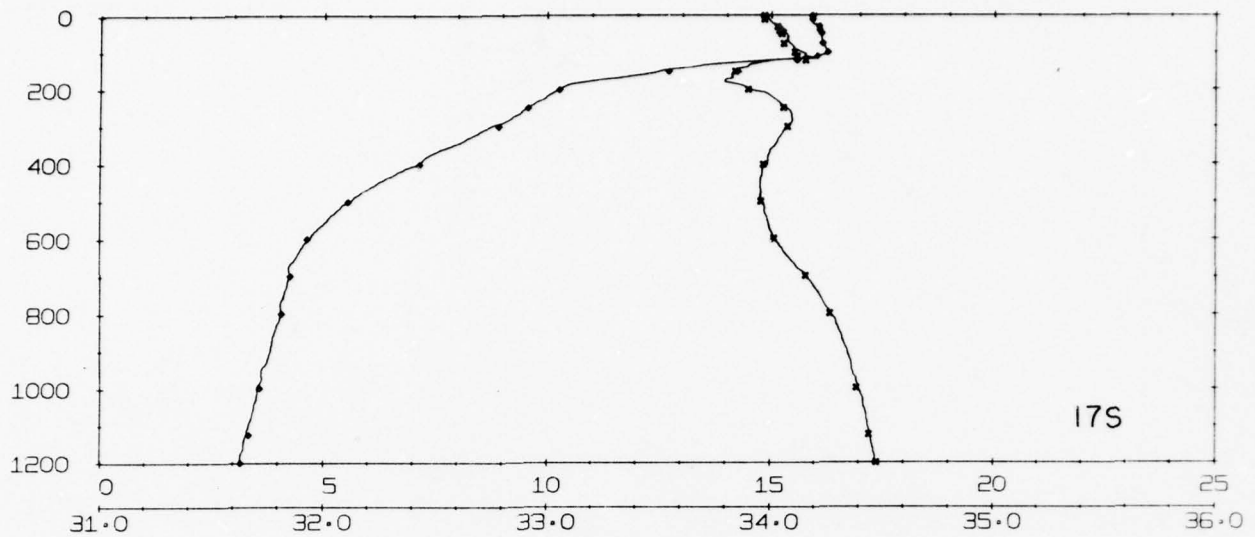
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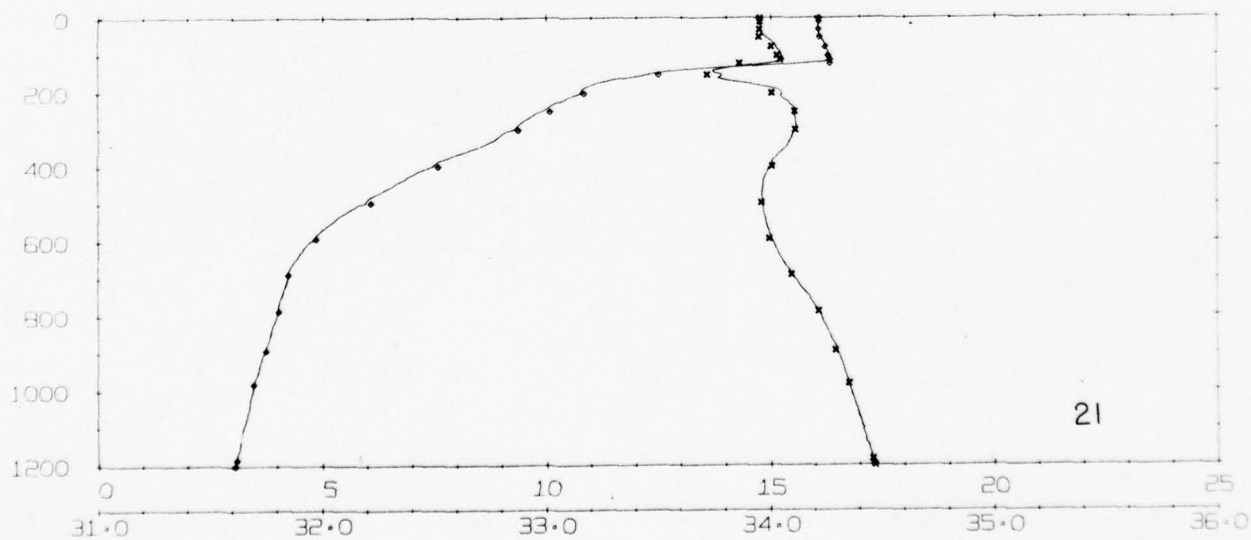
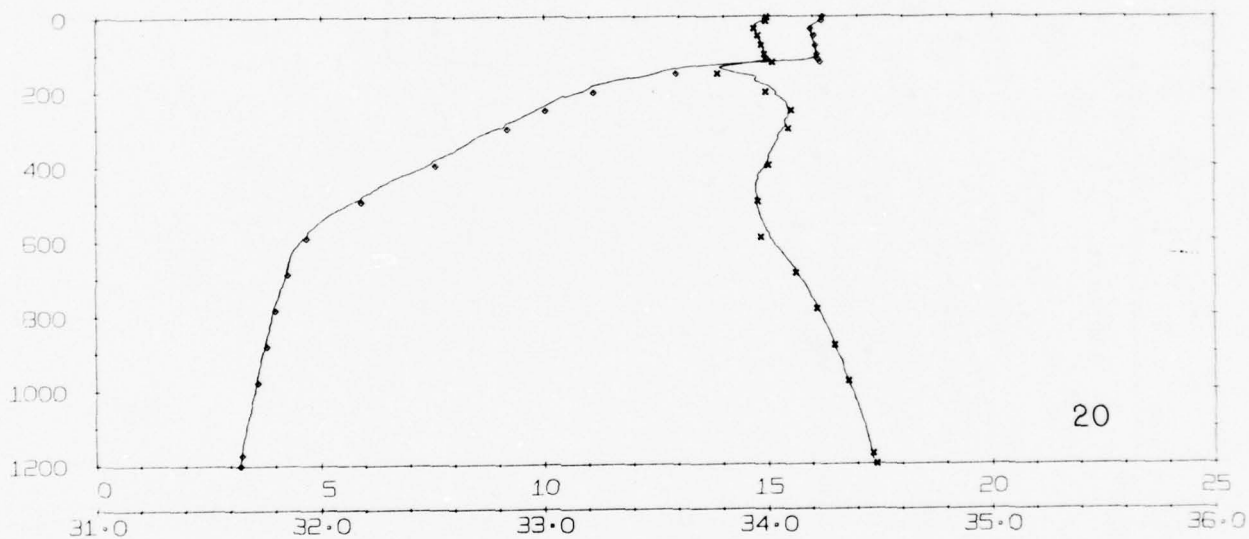
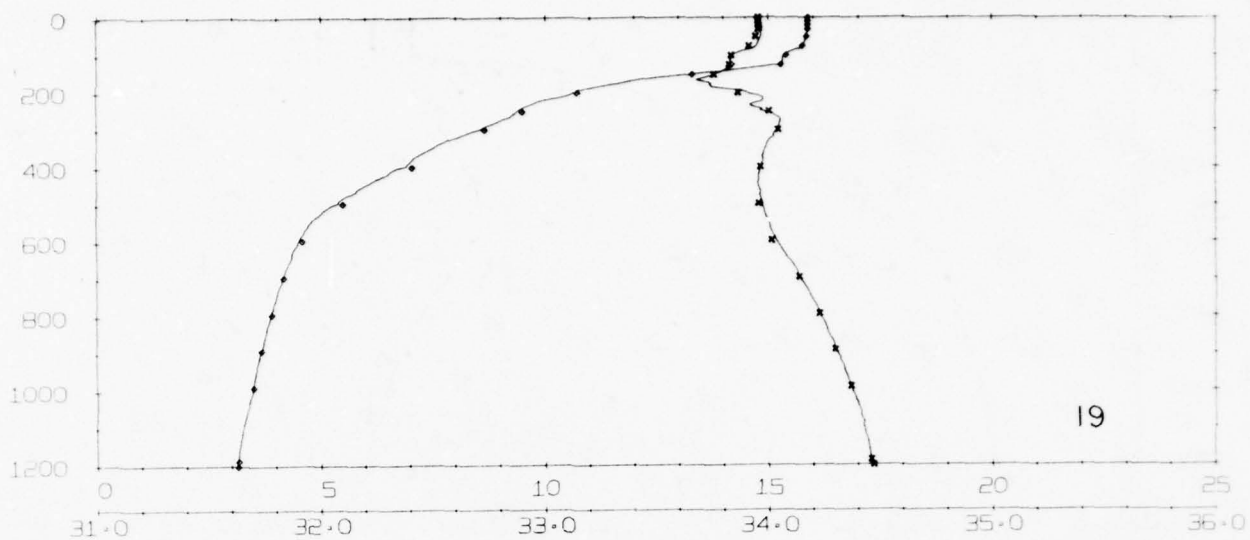
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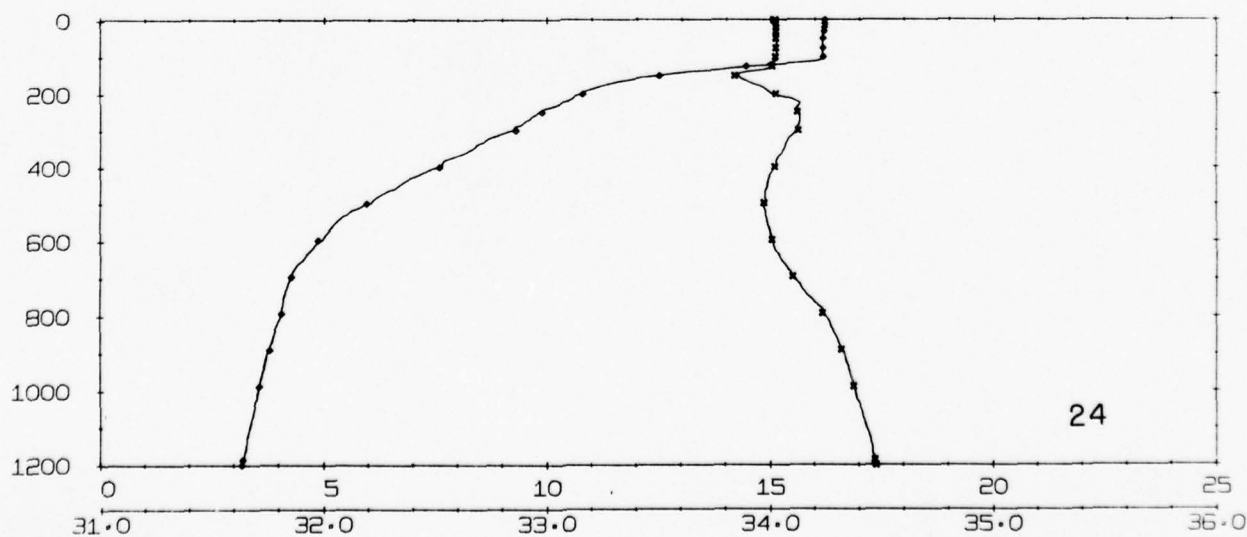
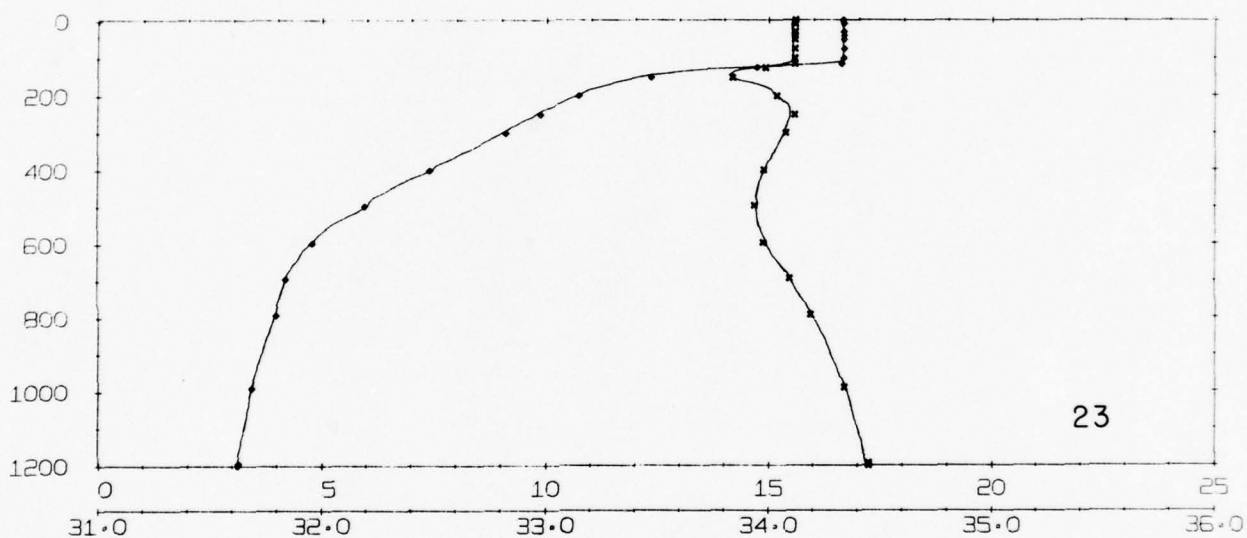
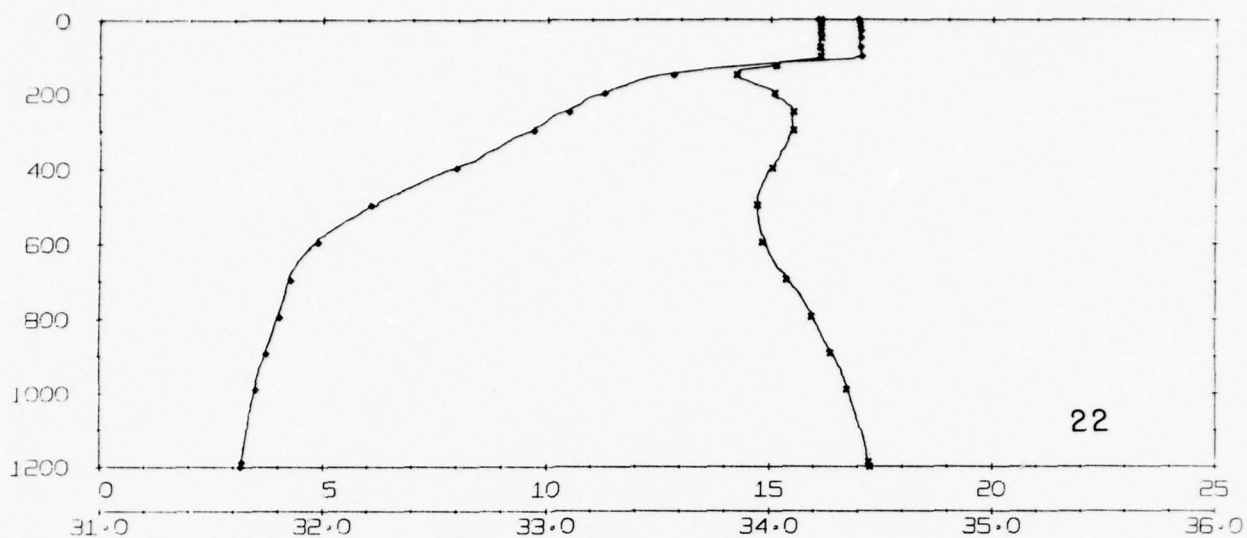
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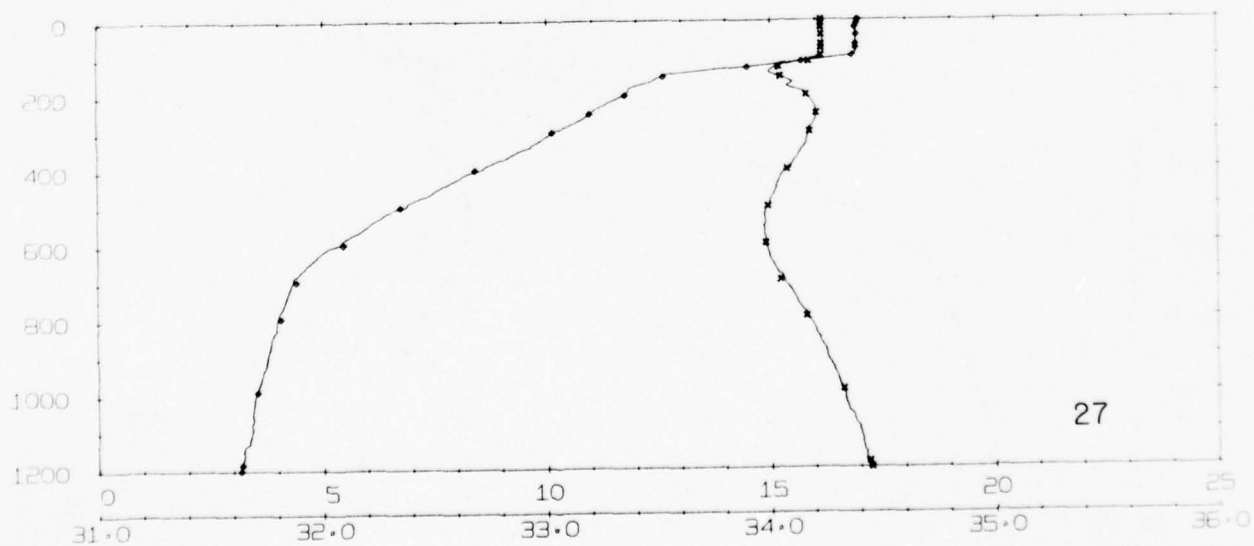
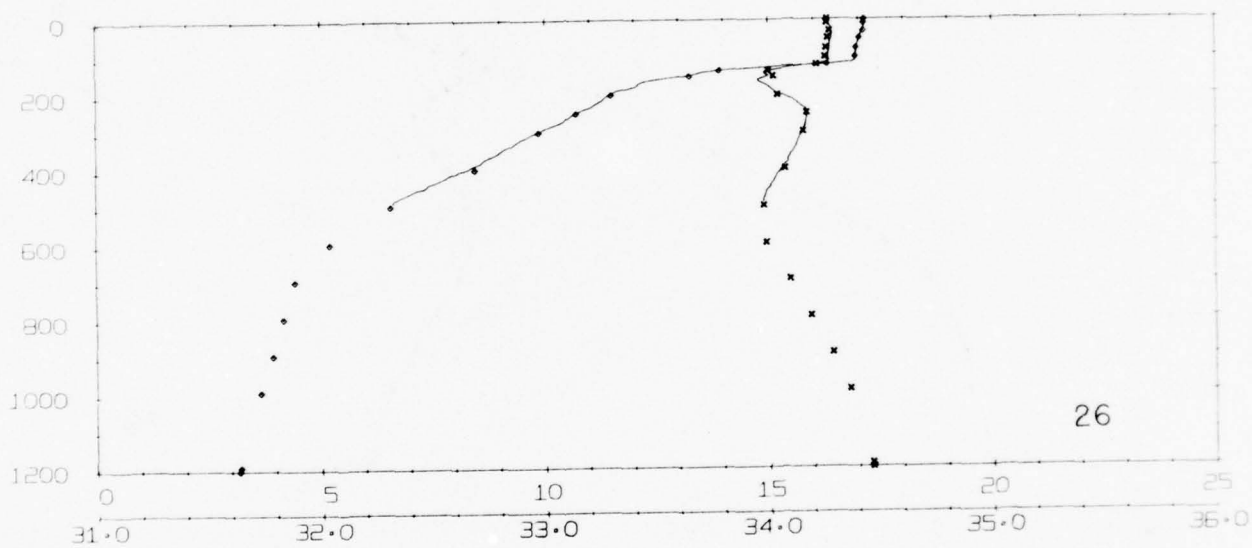
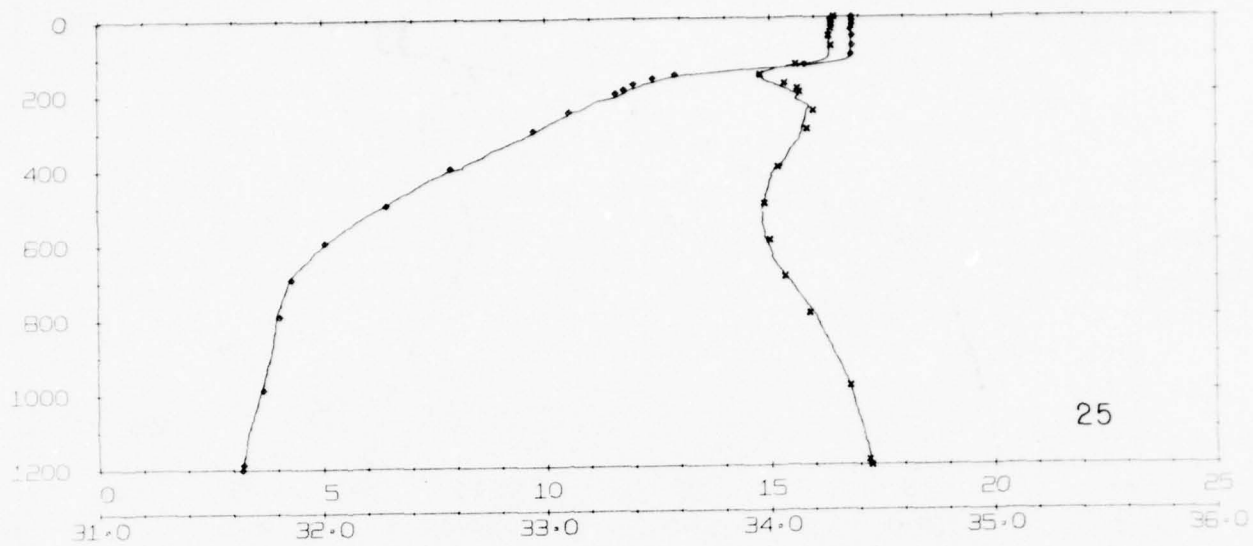
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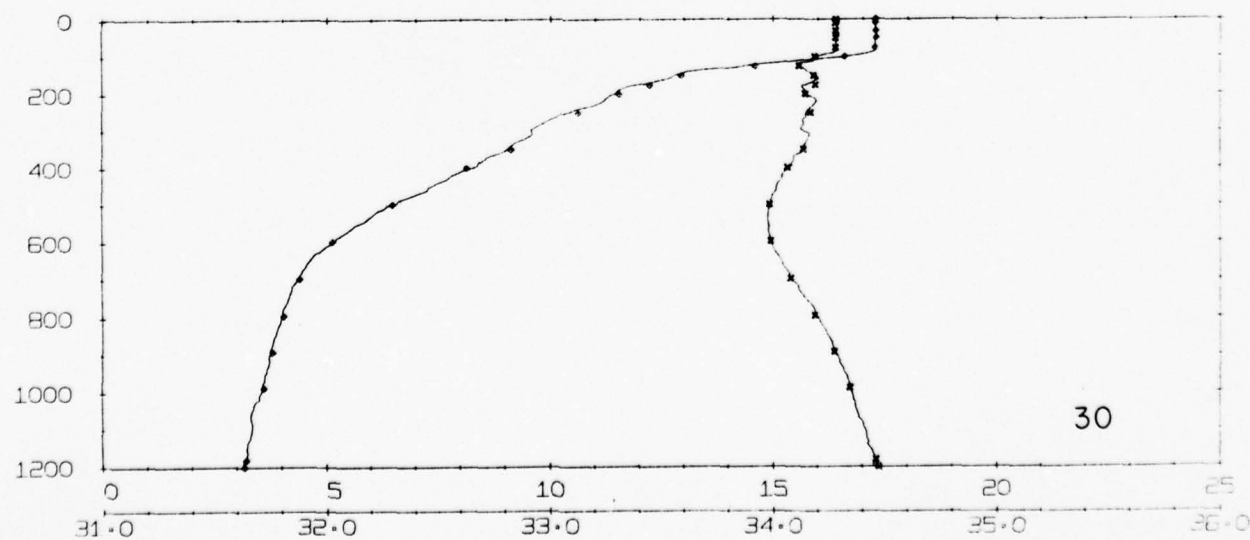
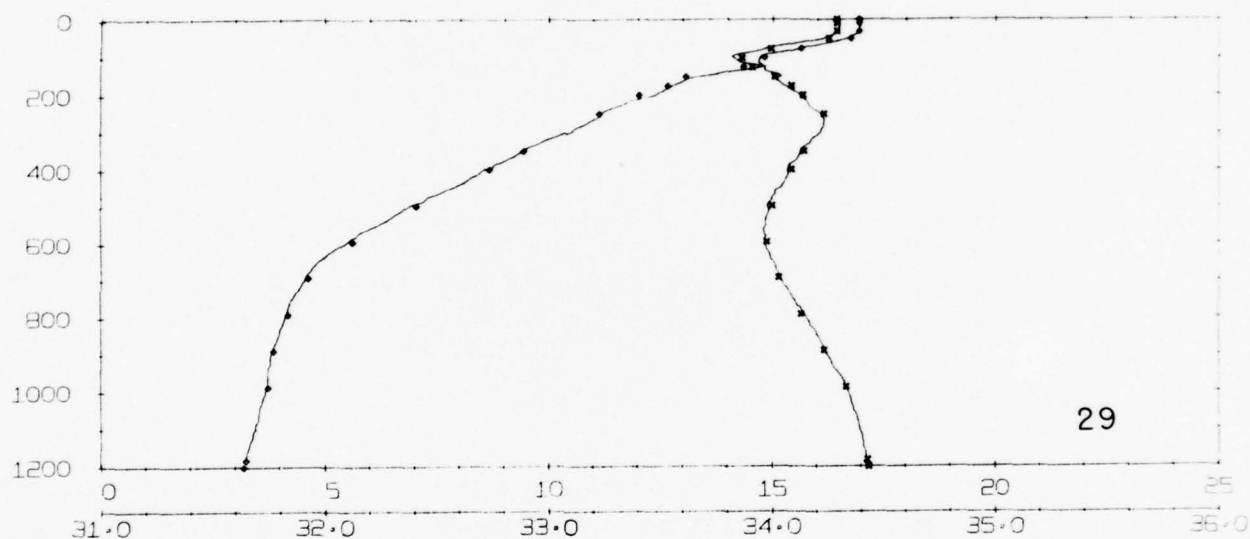
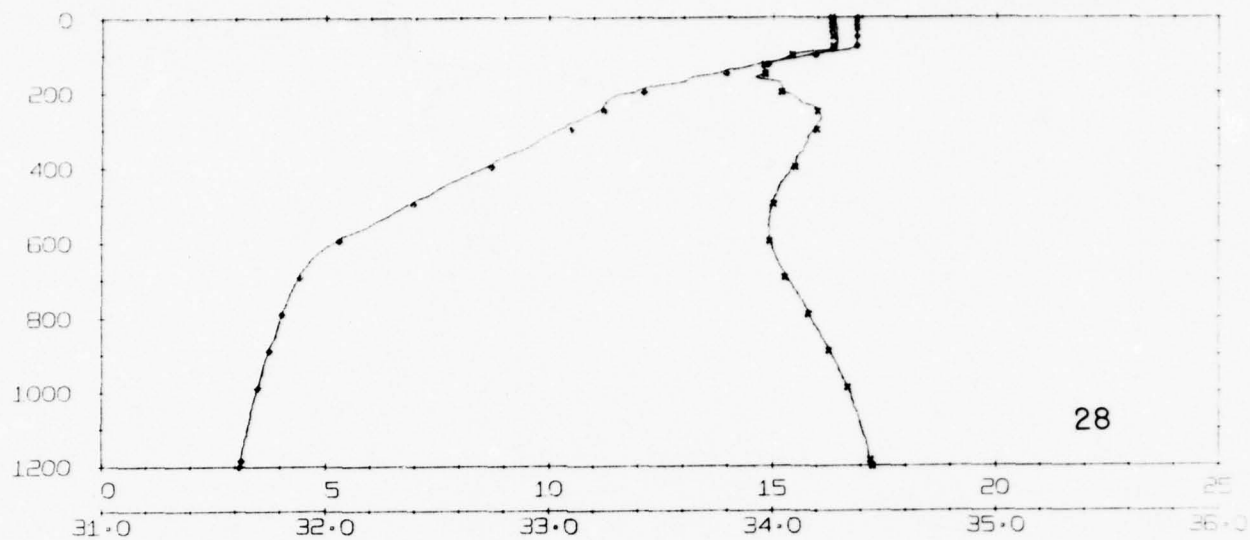
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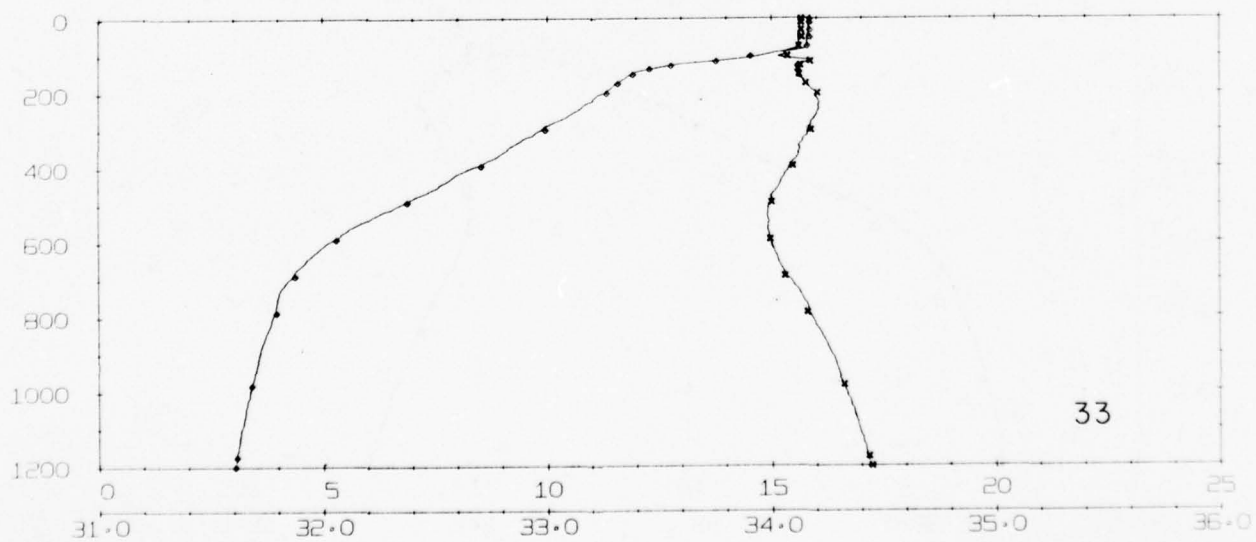
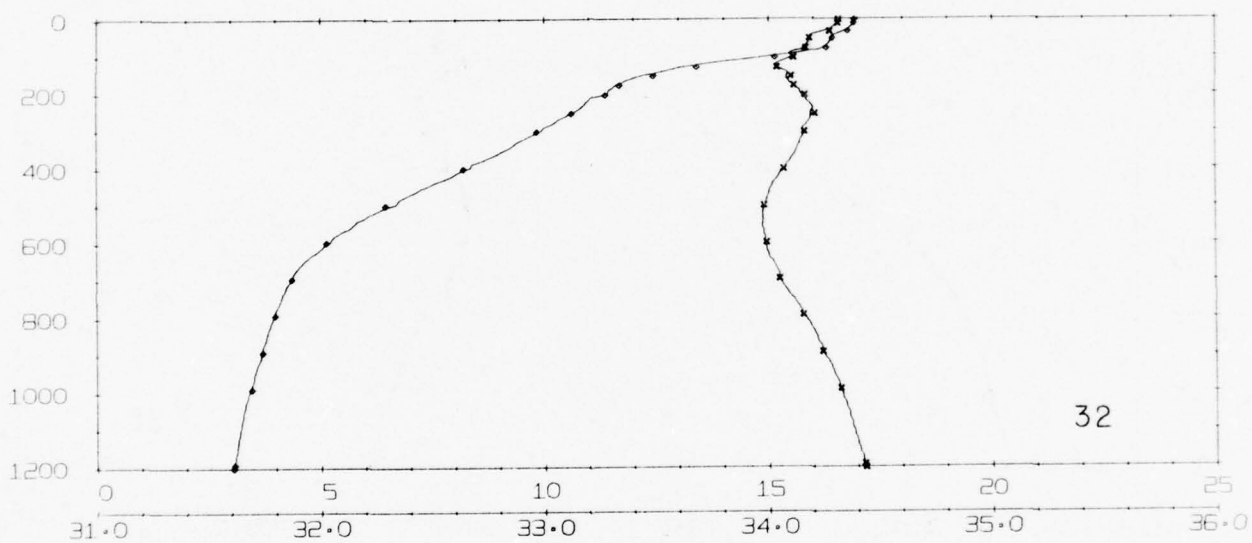
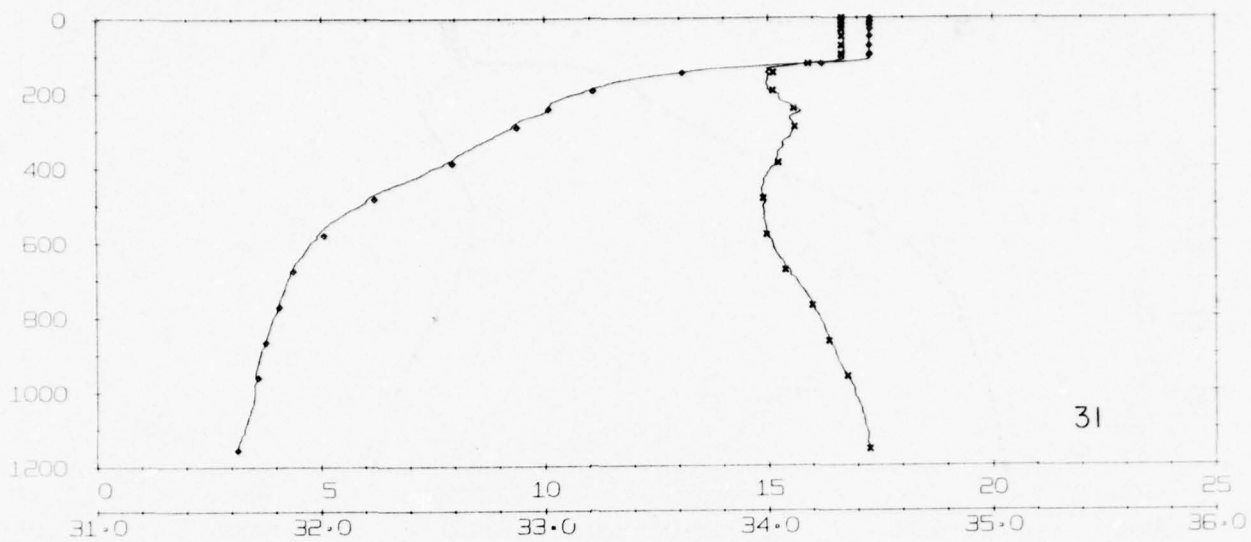
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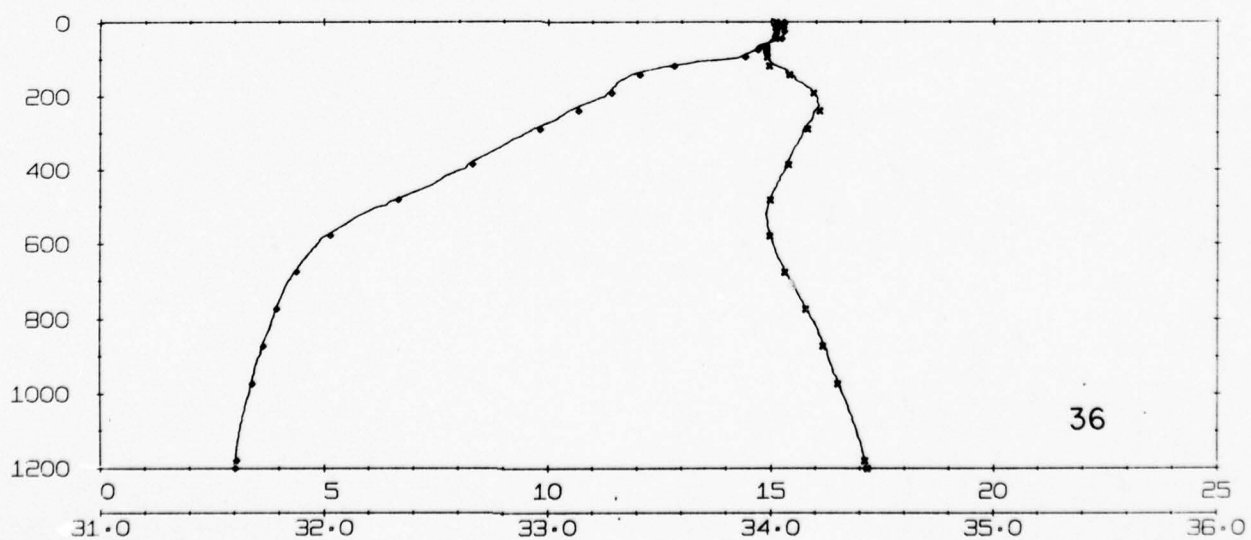
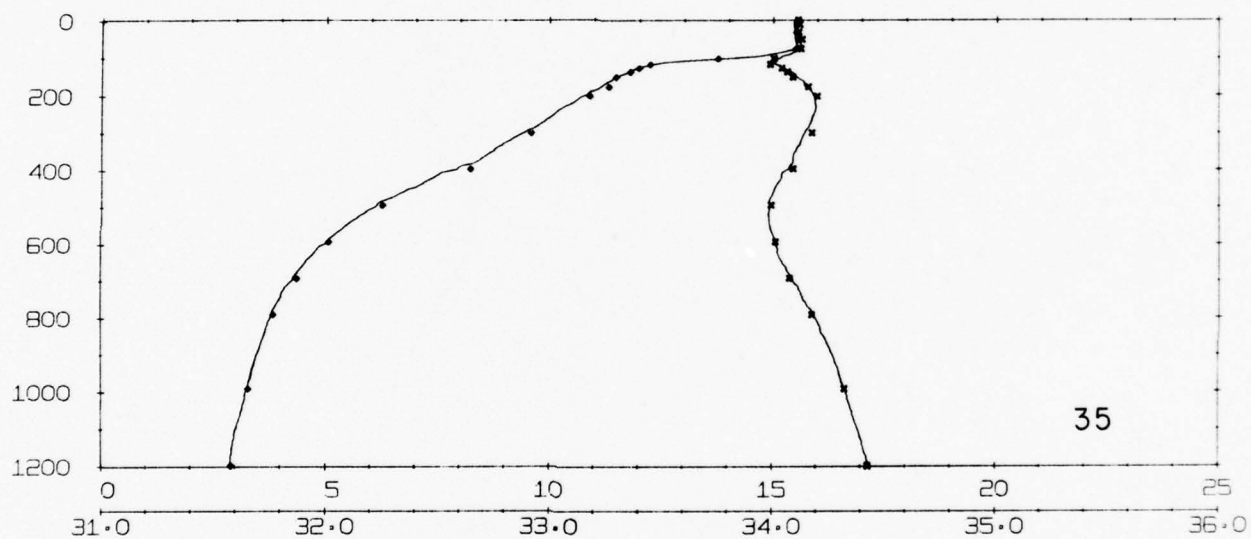
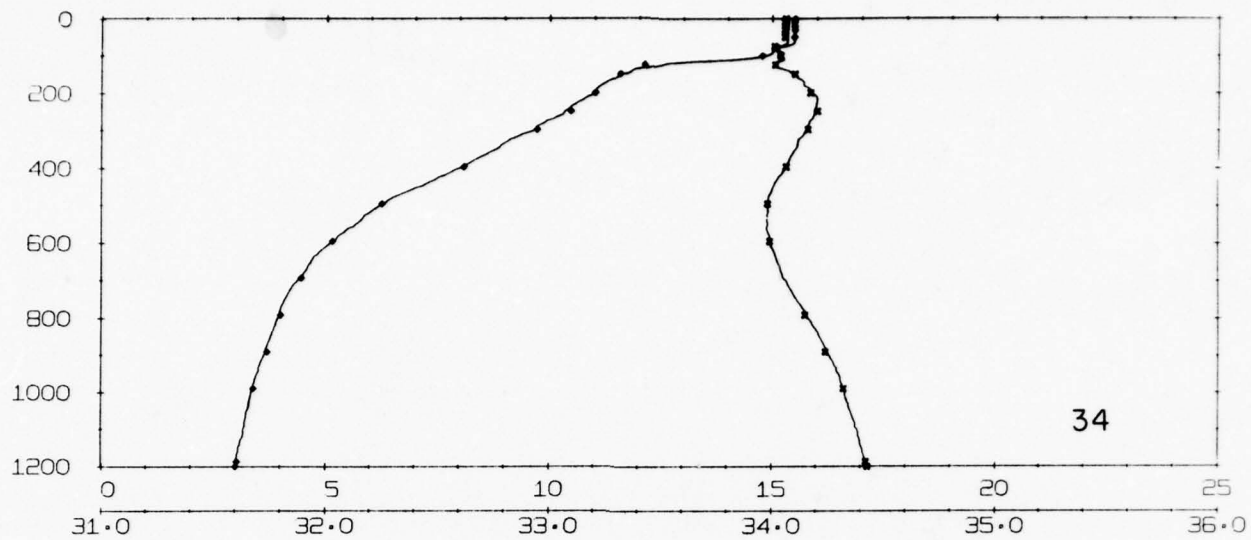
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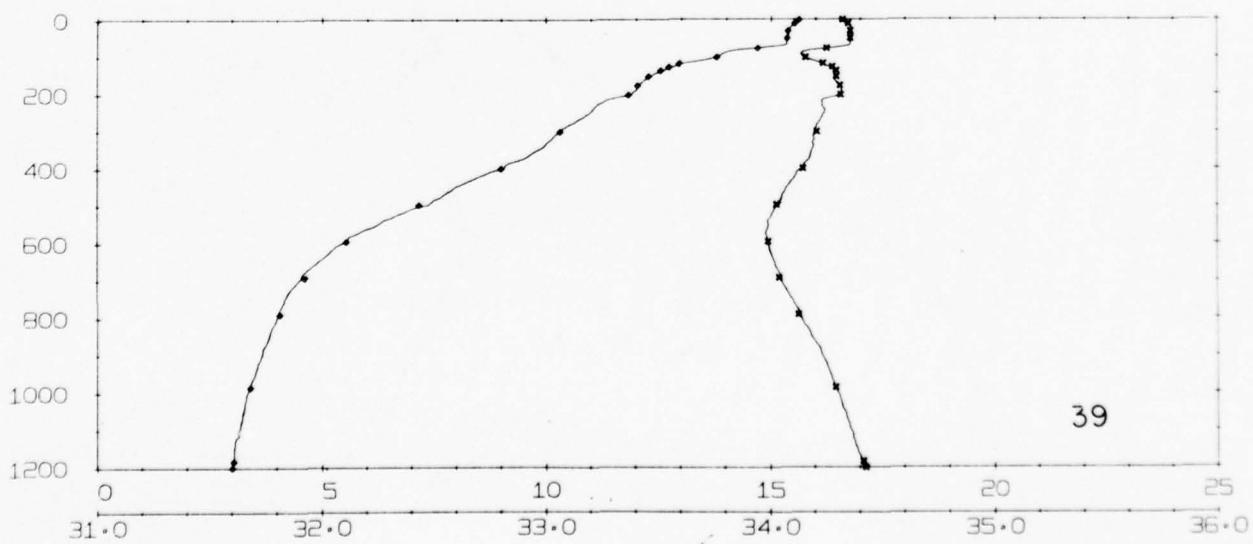
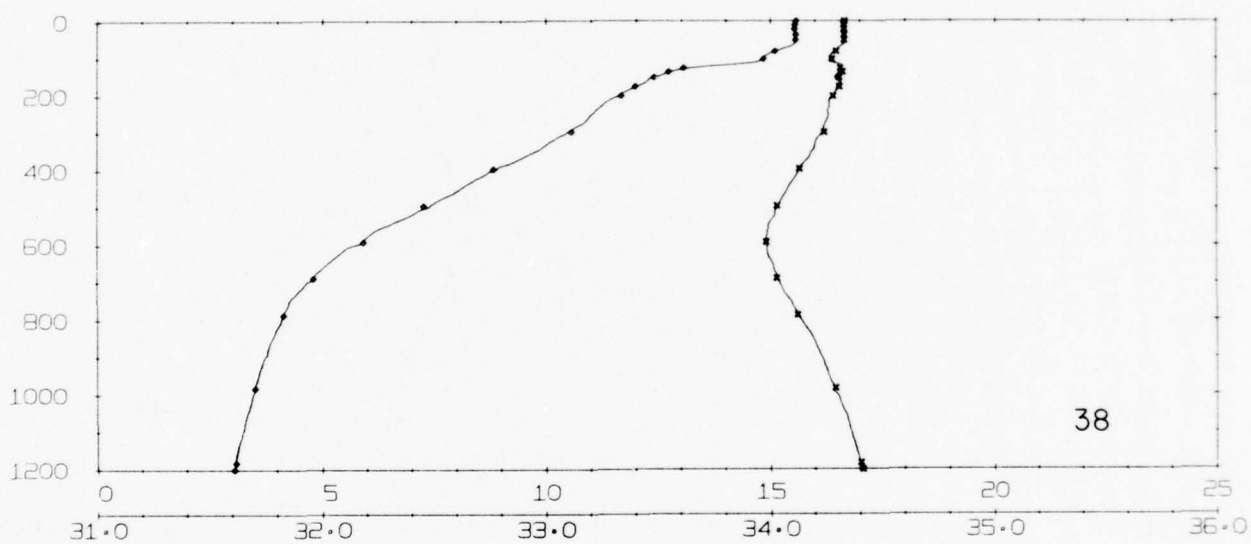
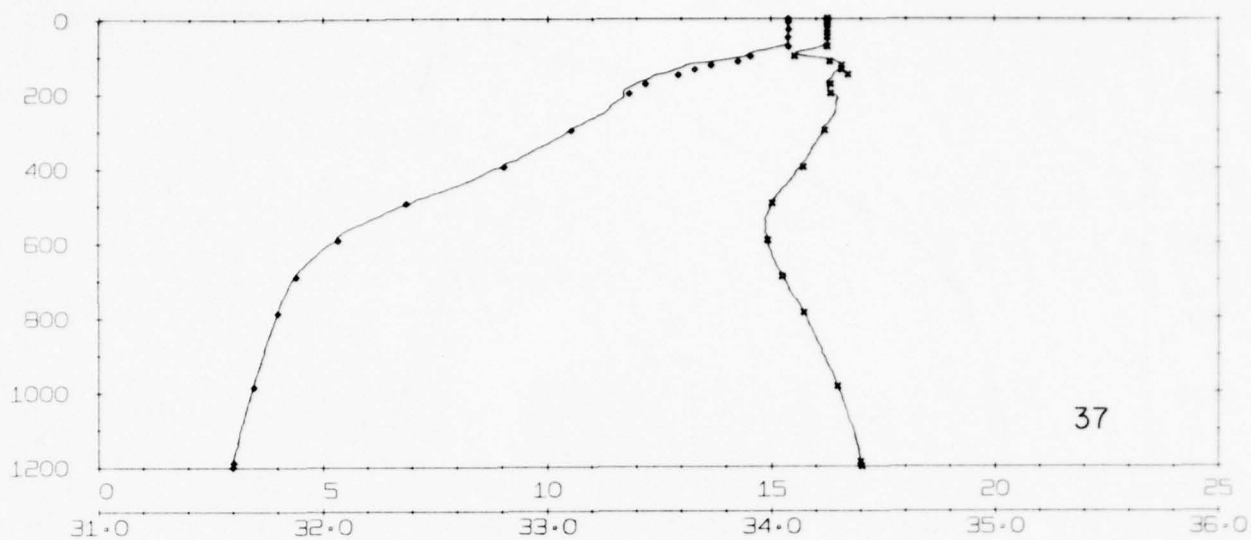
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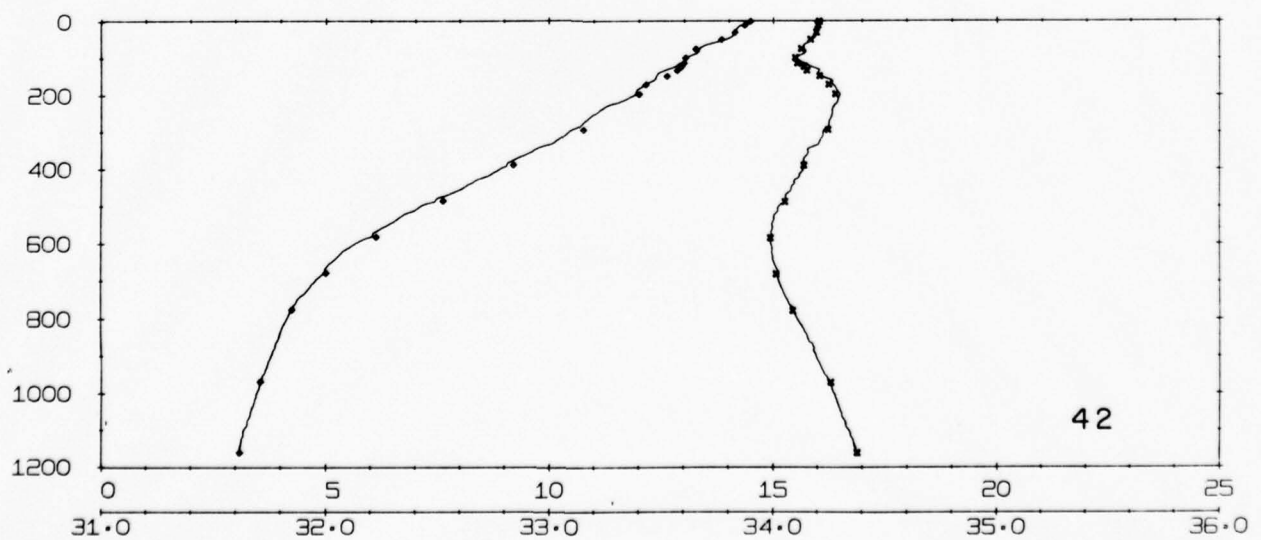
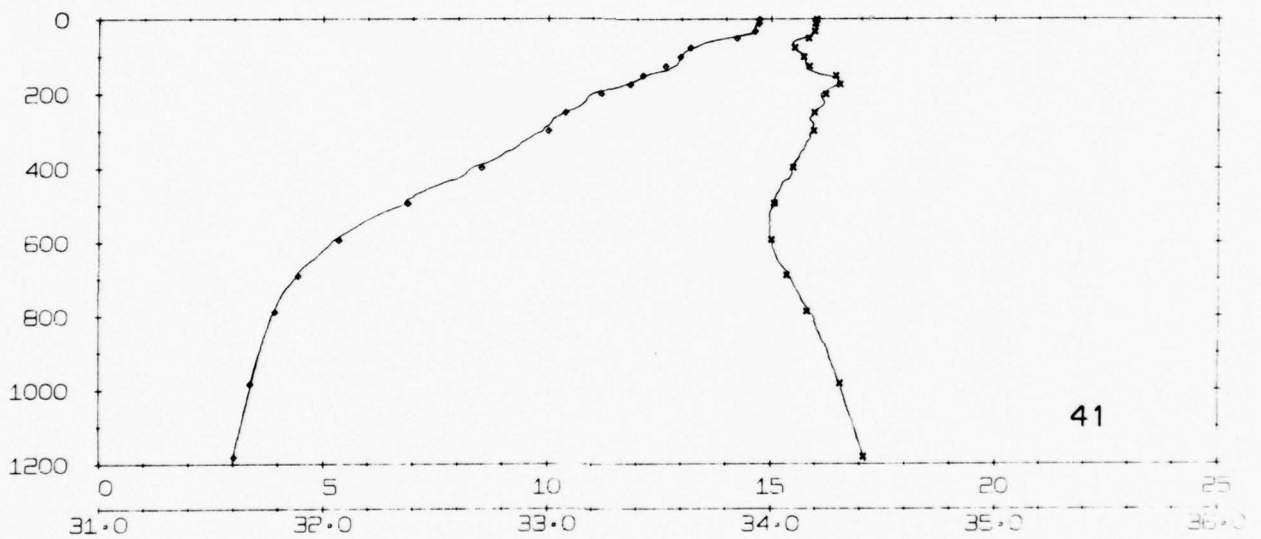
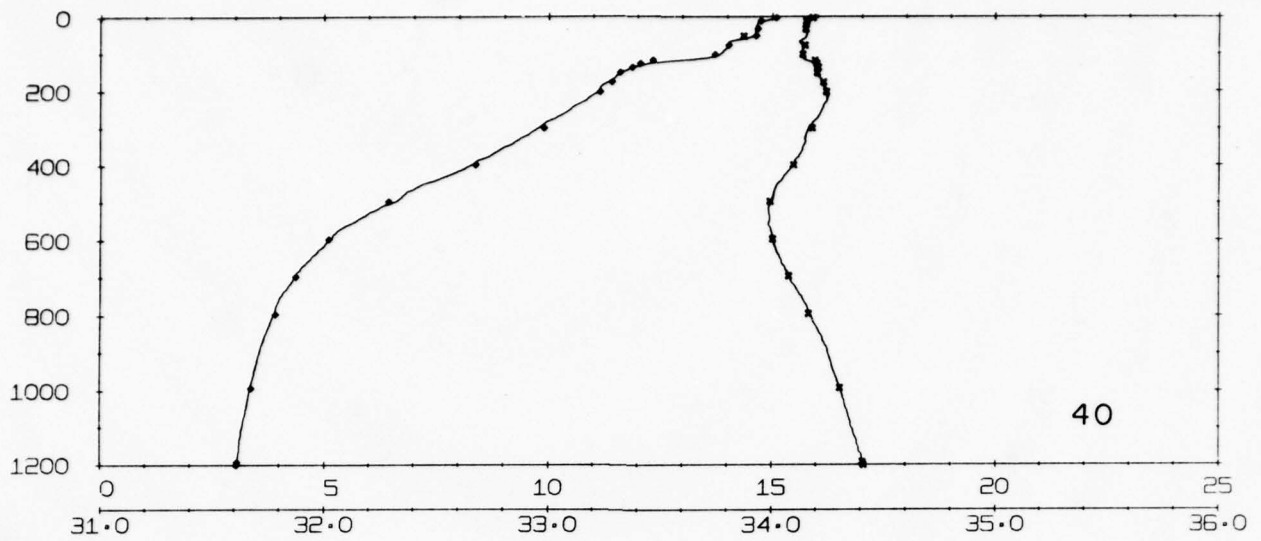
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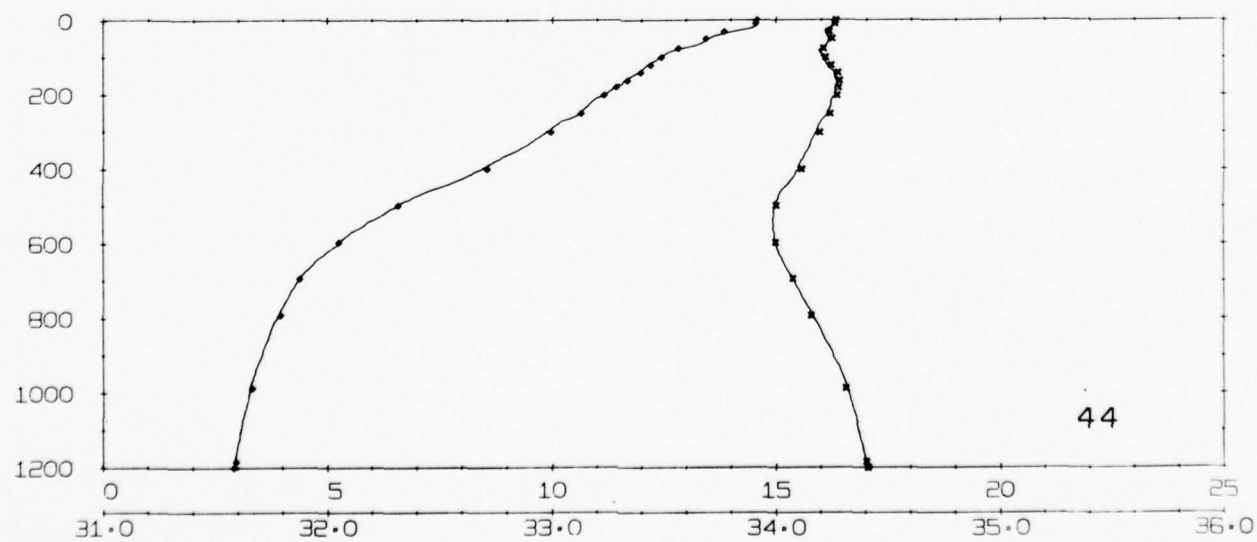
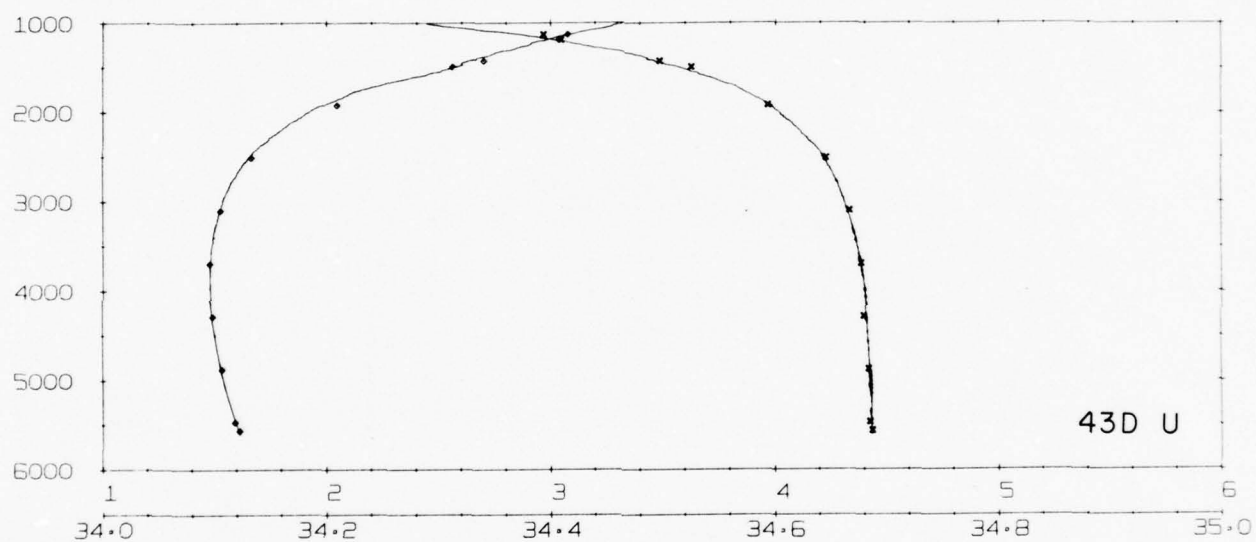
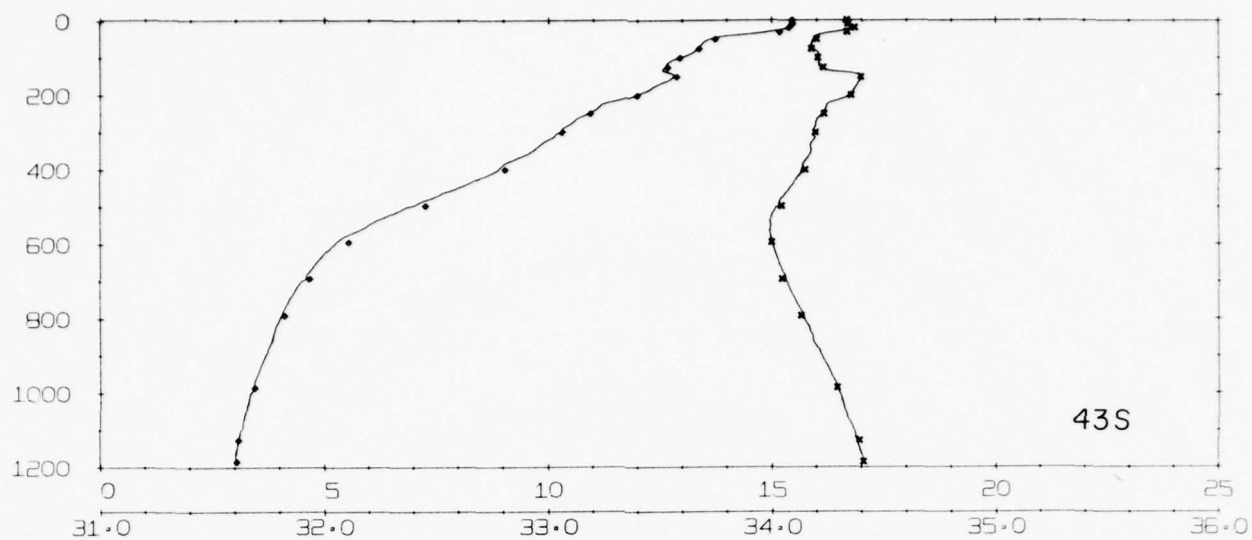
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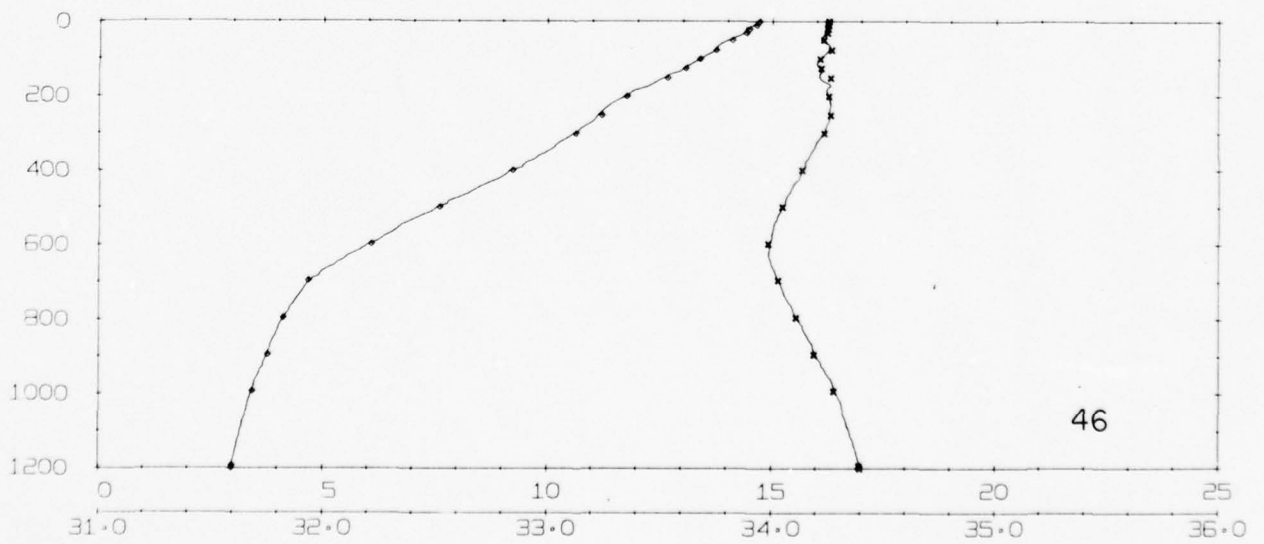
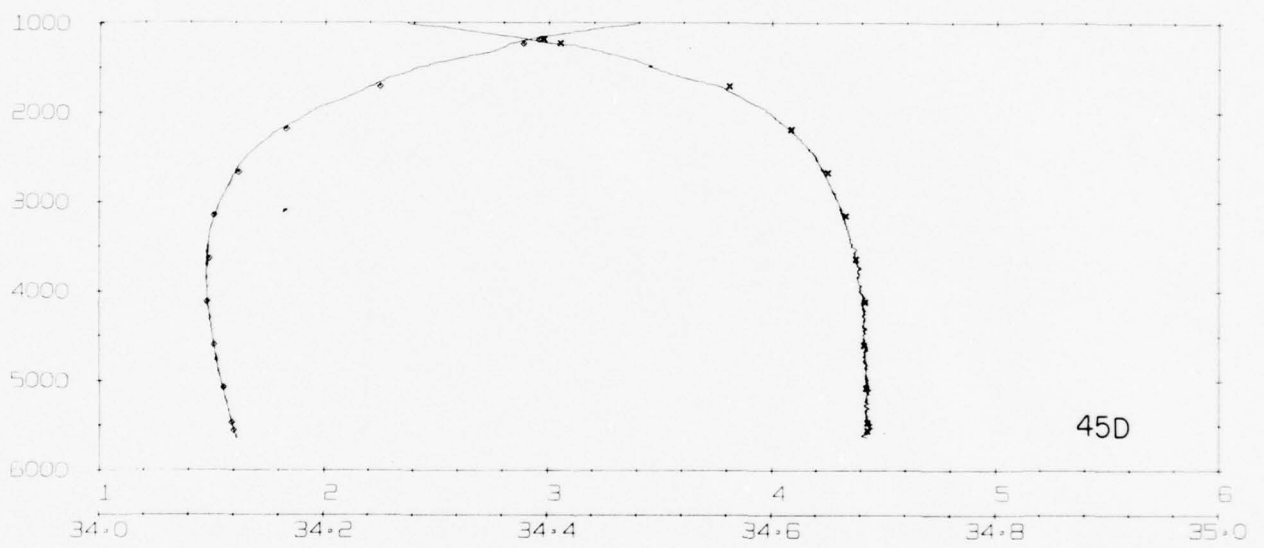
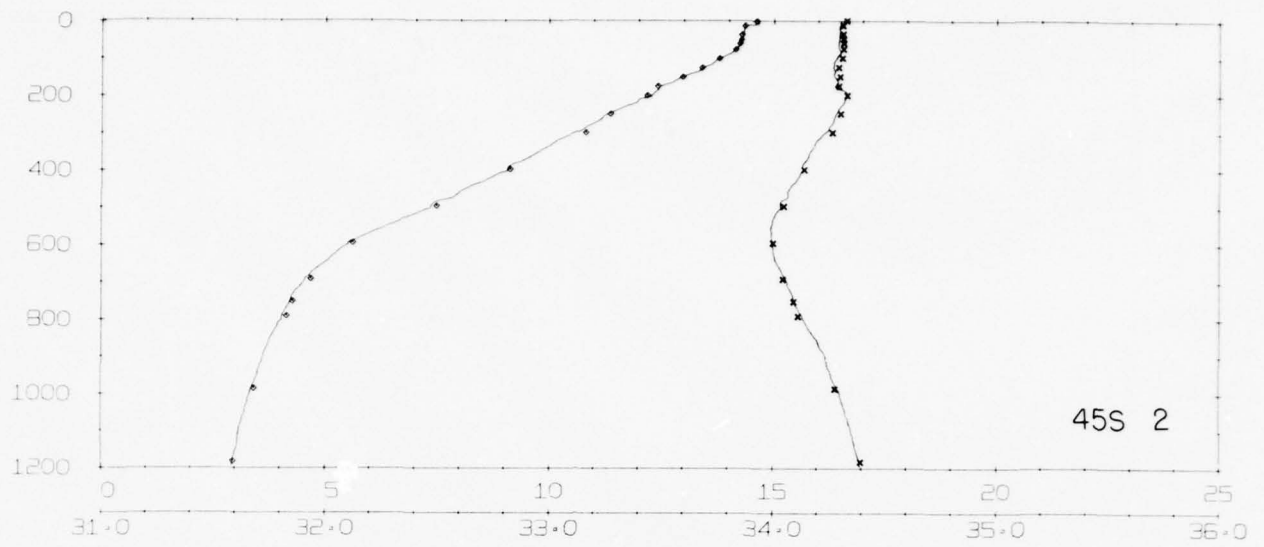
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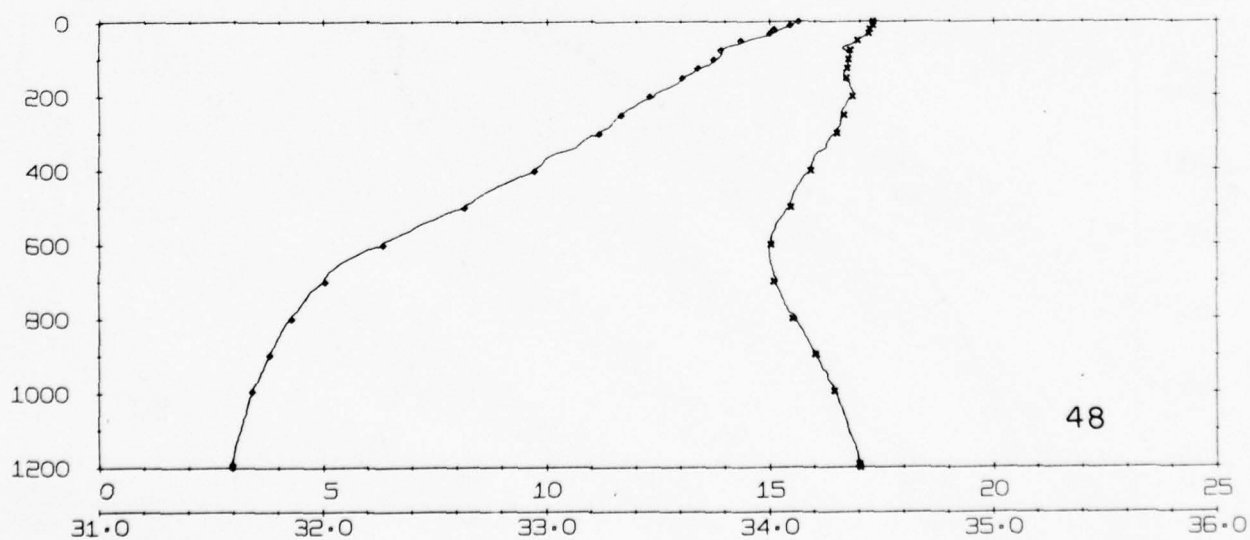
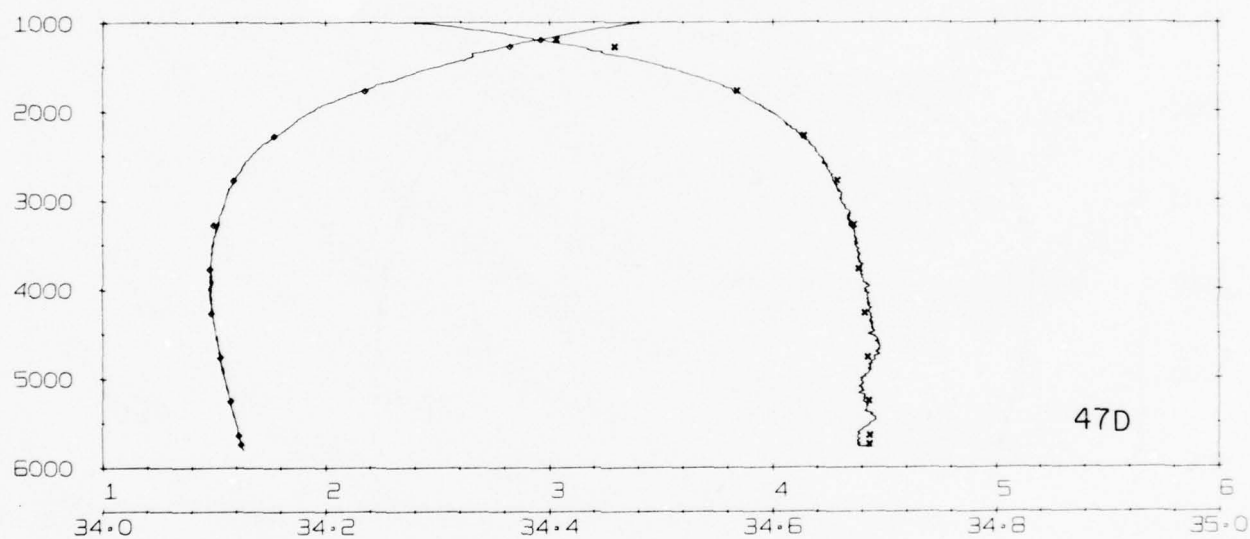
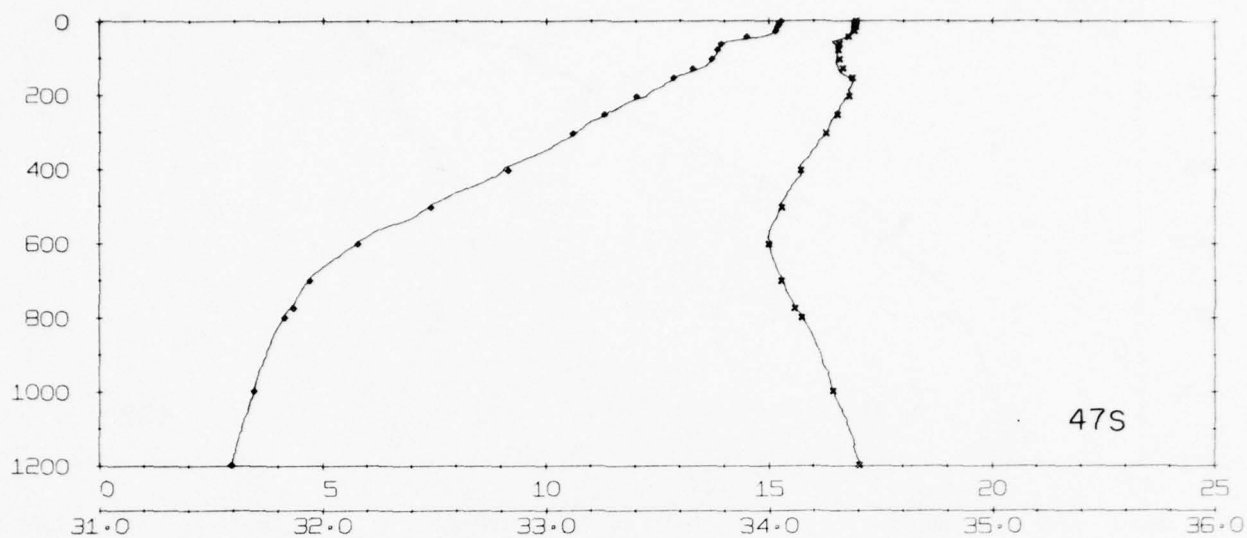
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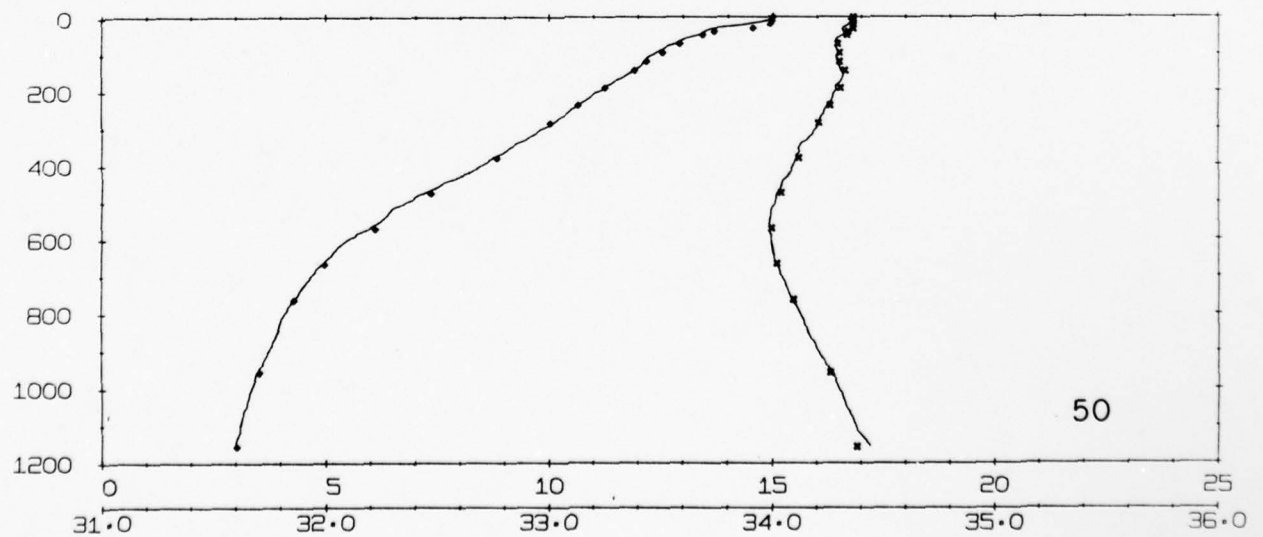
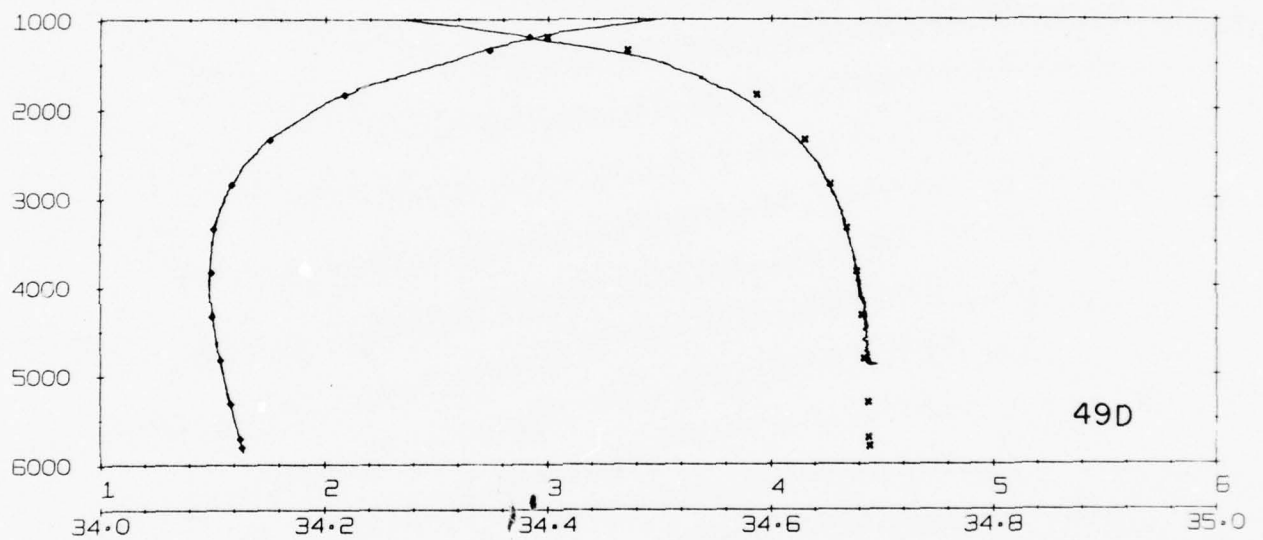
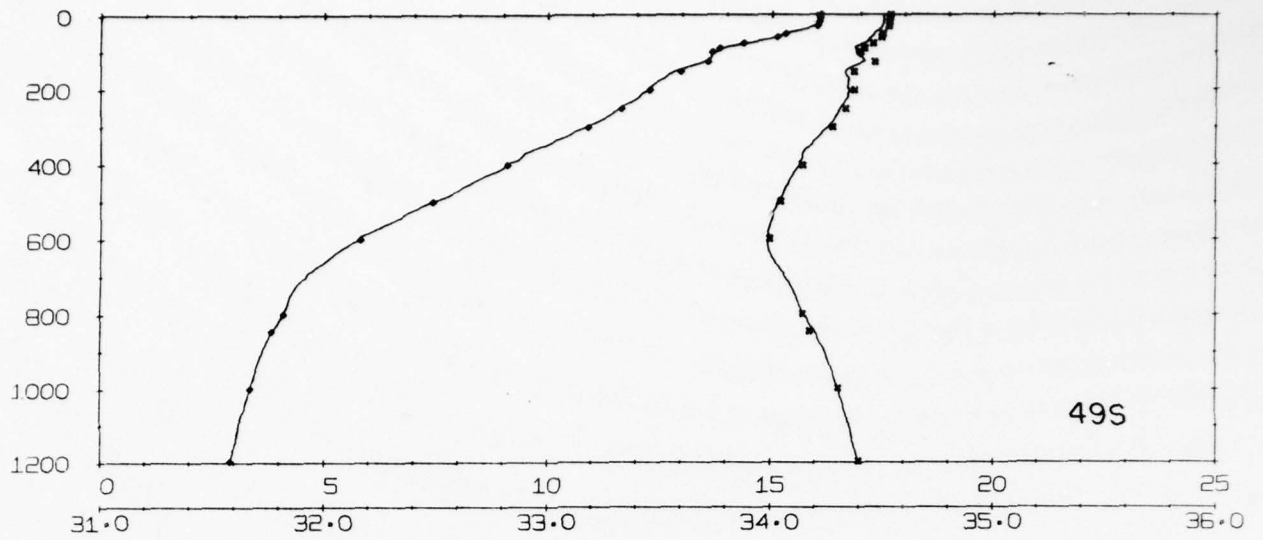
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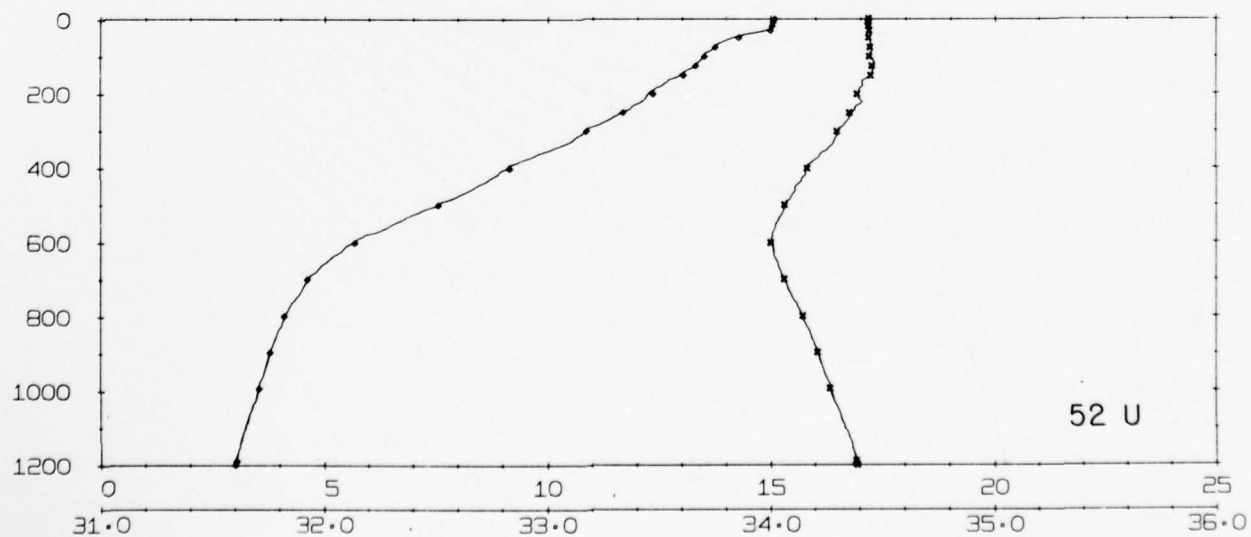
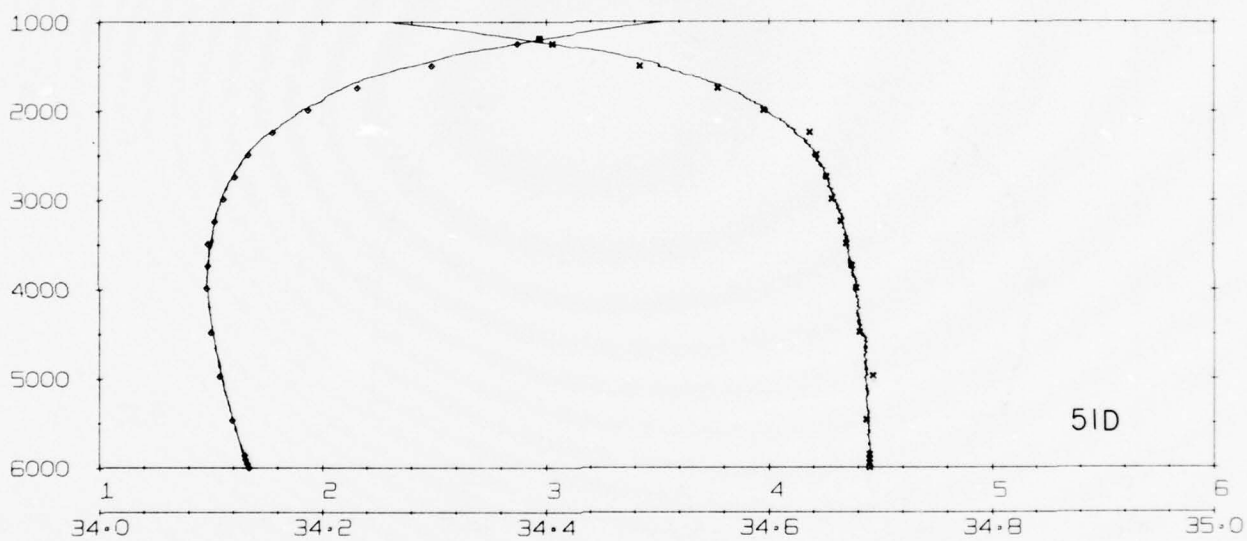
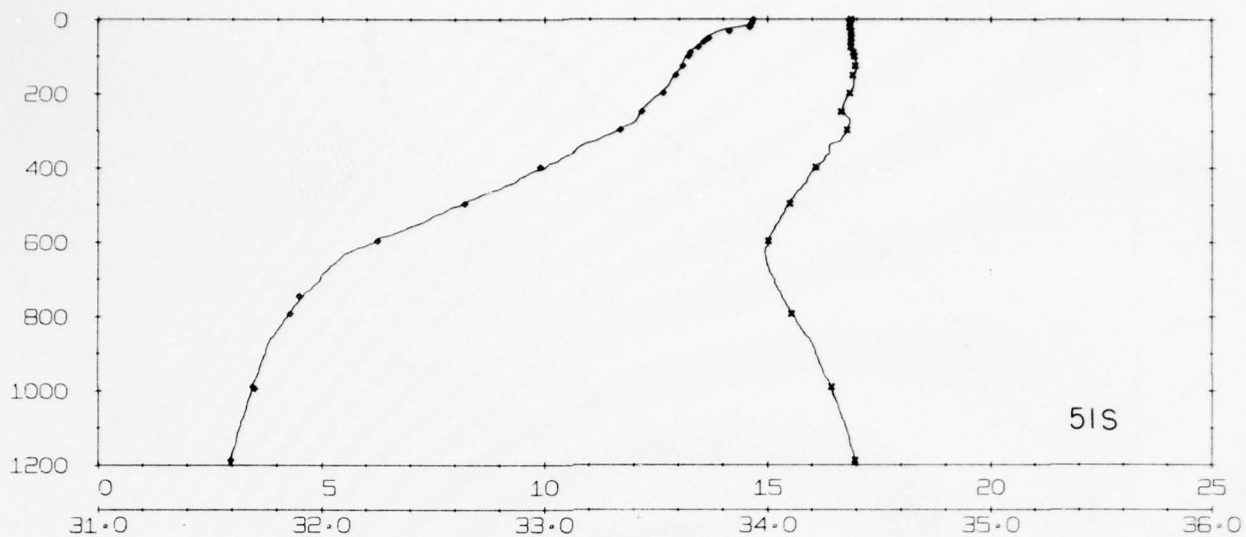
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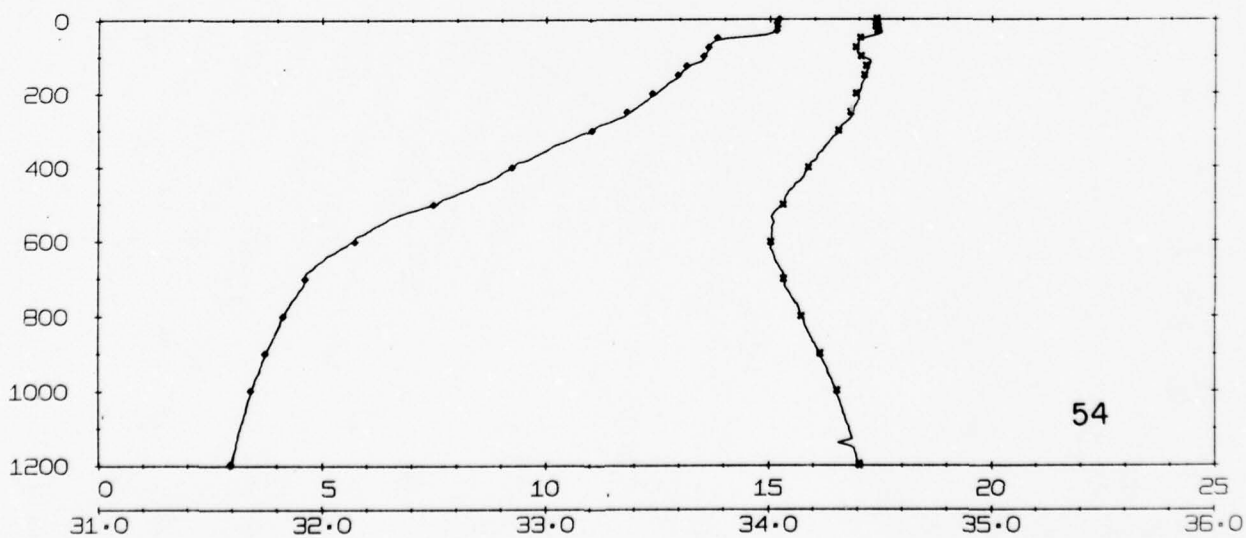
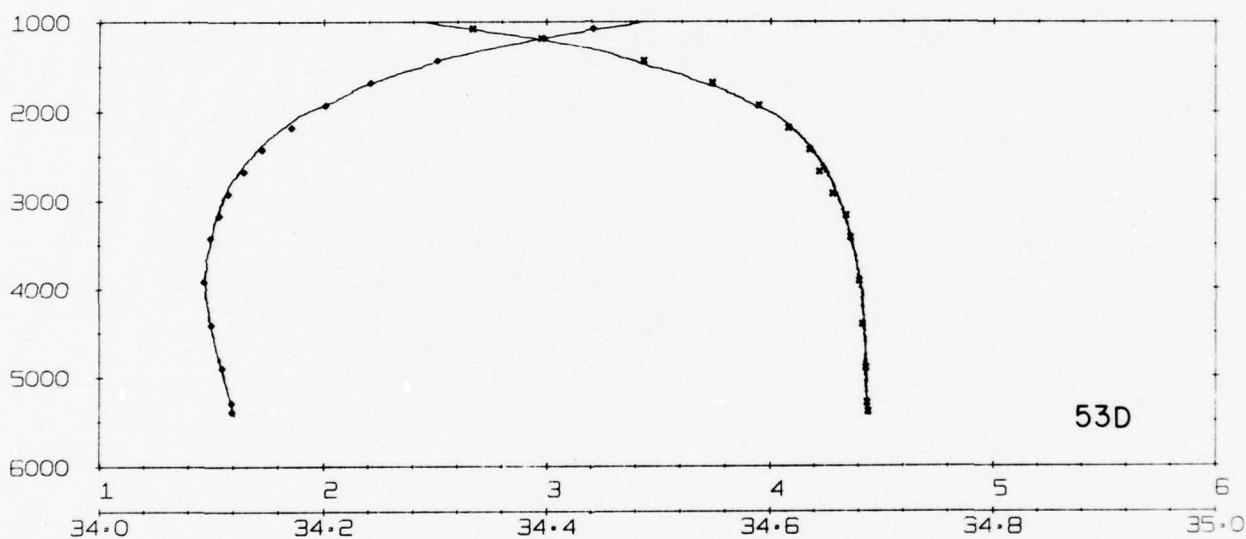
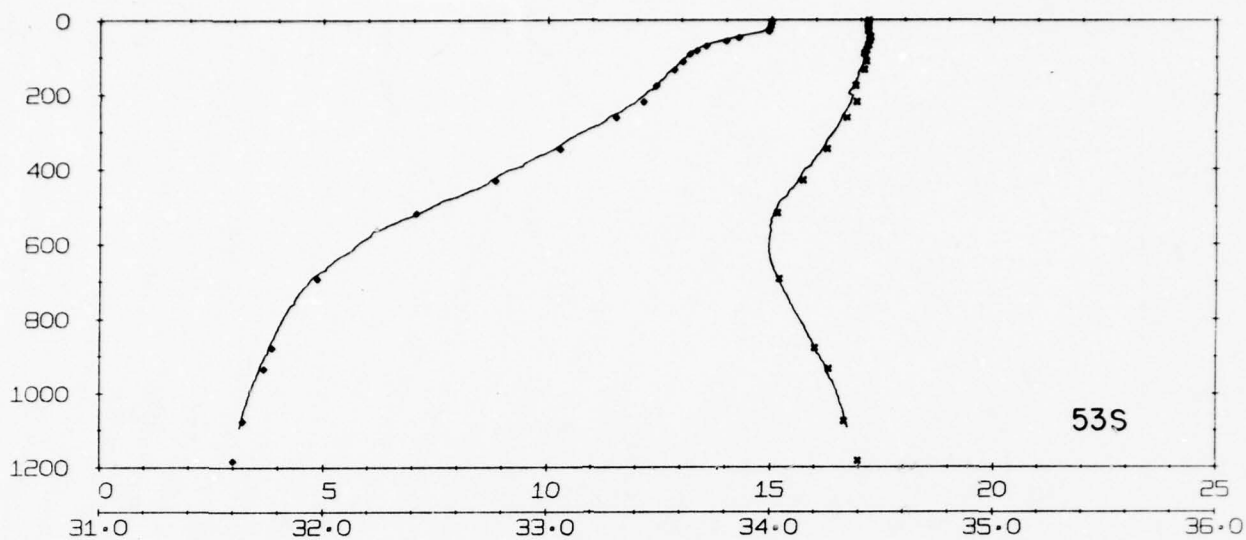
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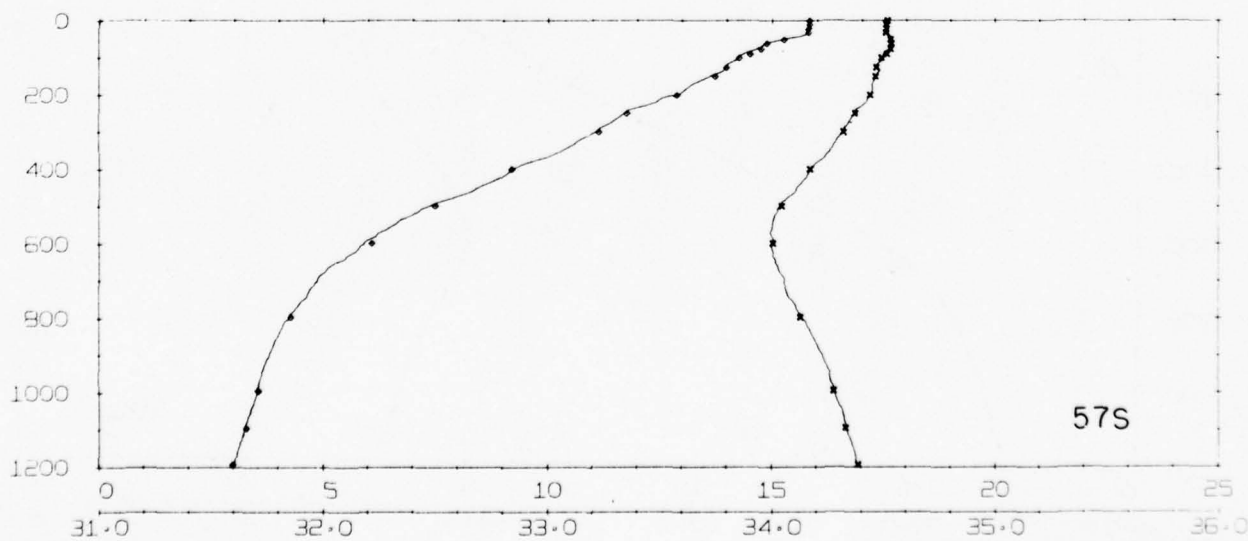
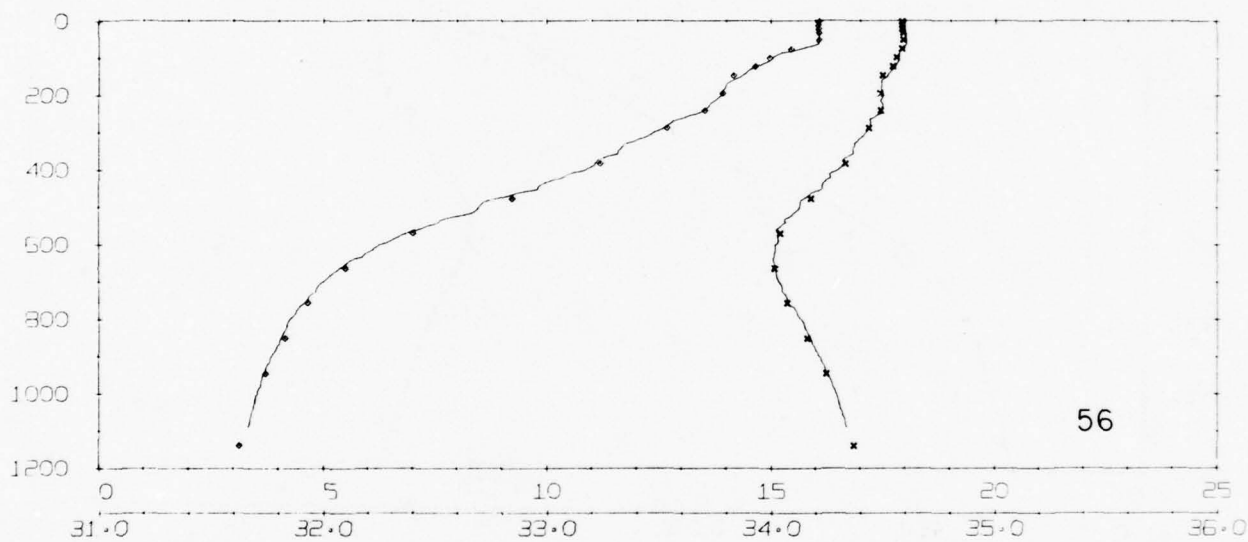
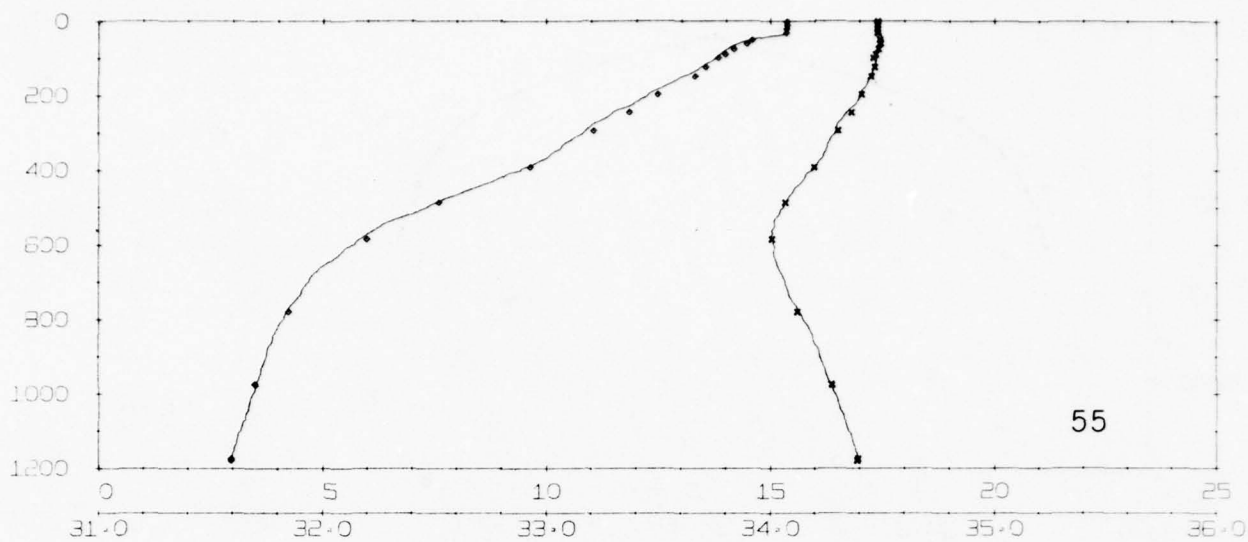
INDOPAC LEG I



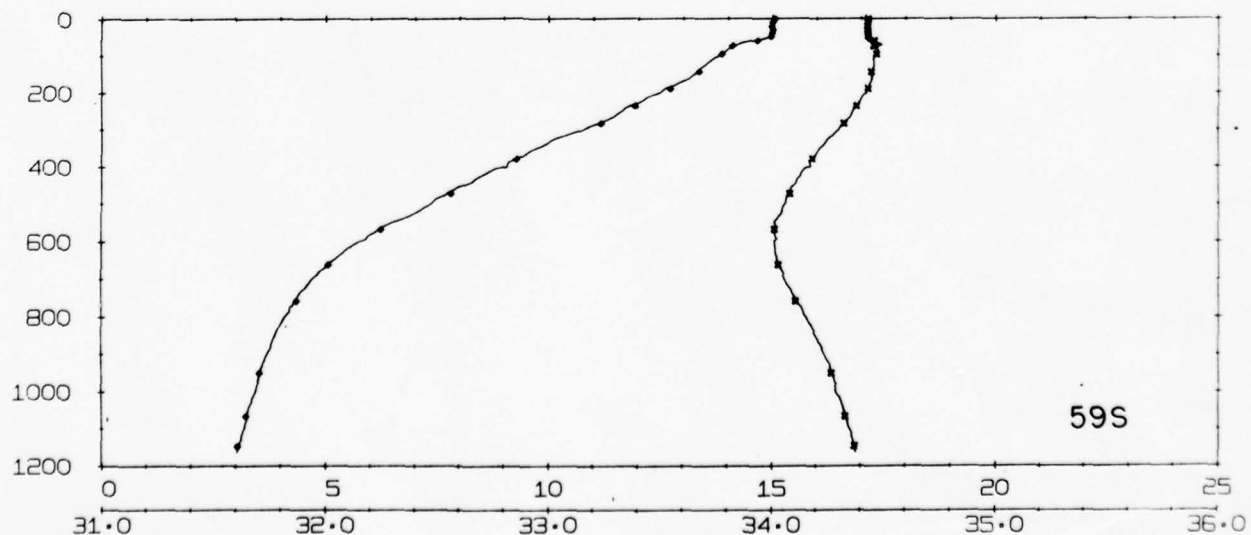
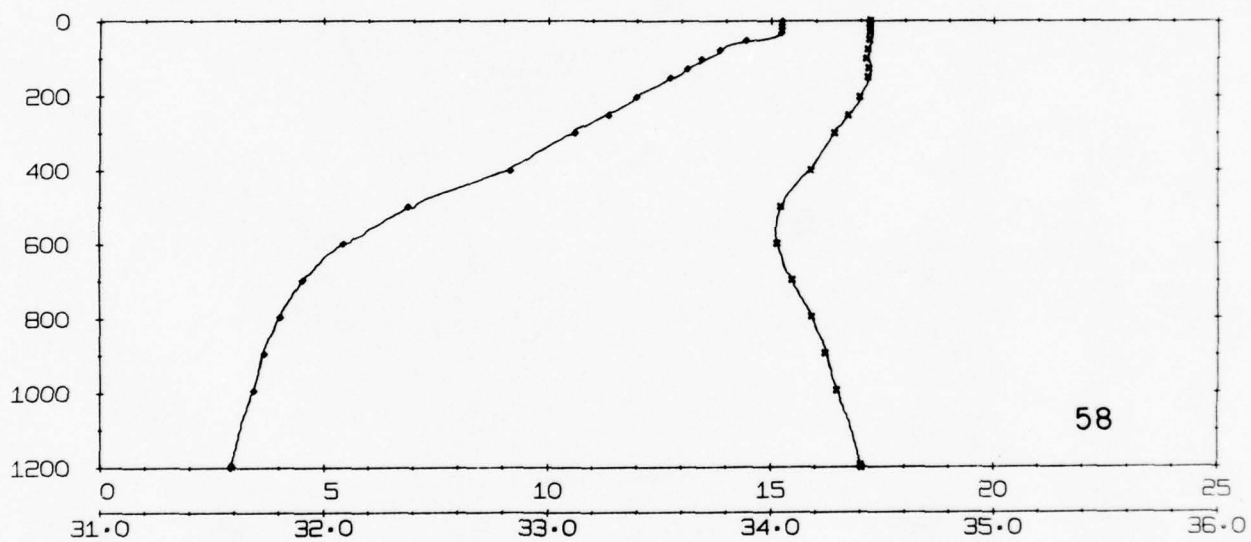
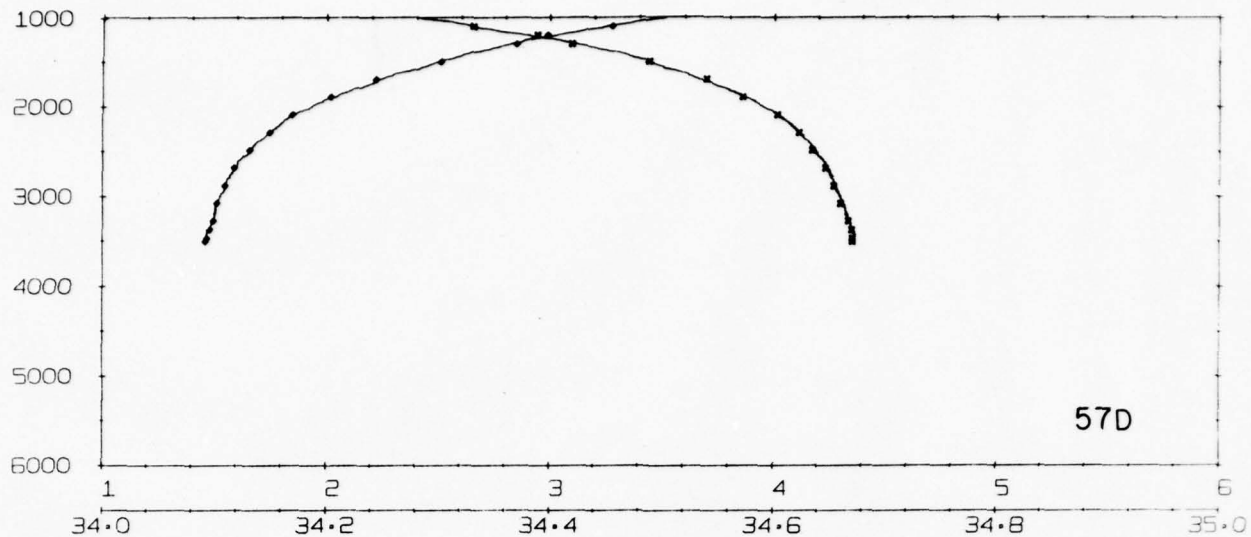
INDOPAC LEG I



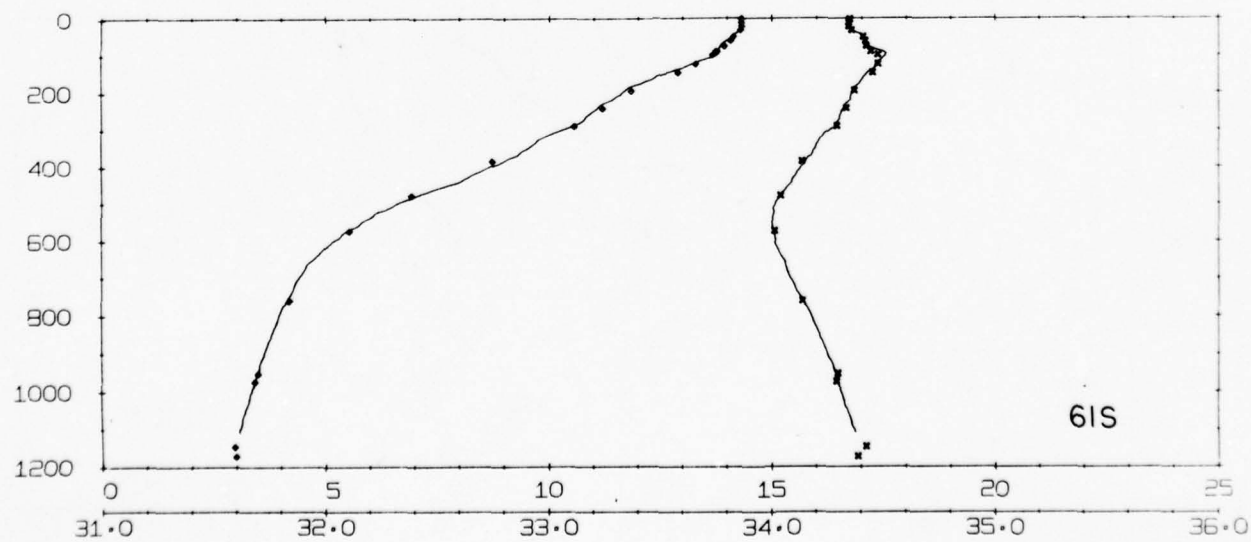
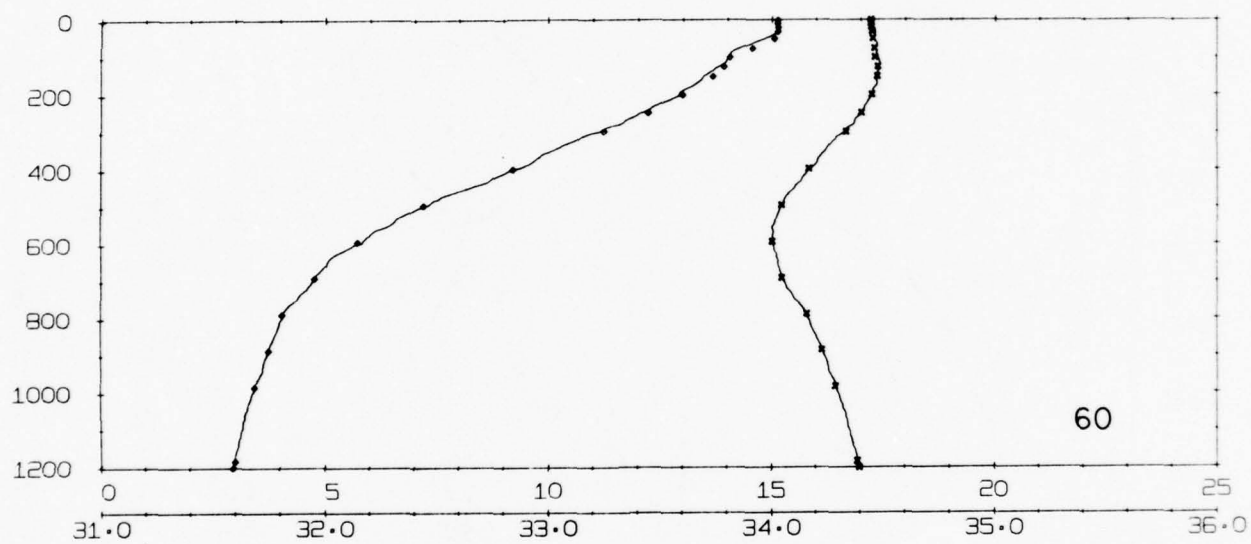
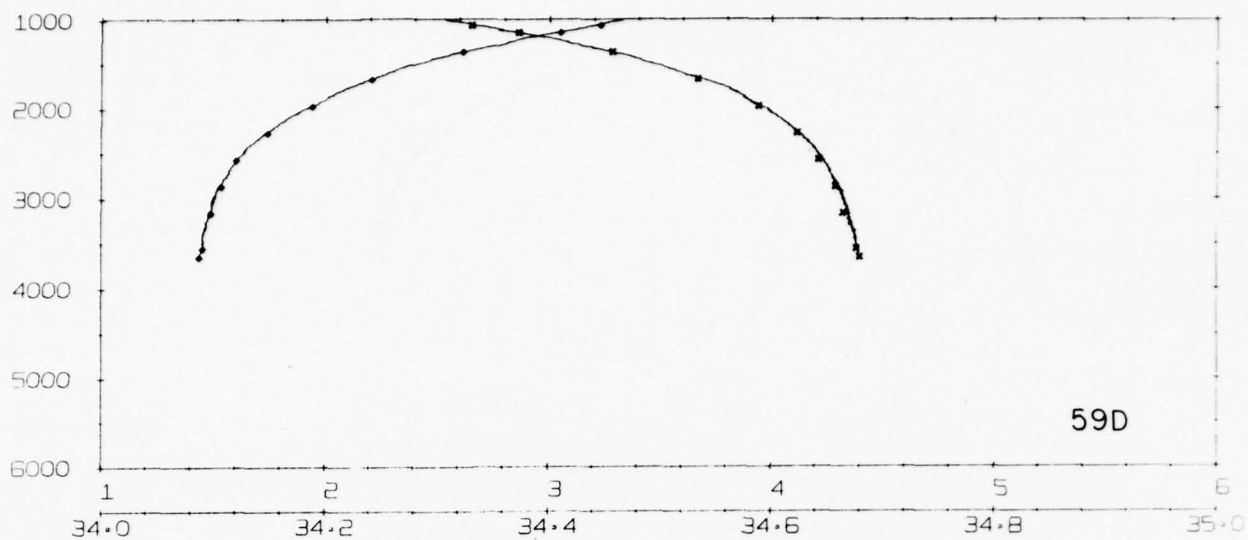
INDOPAC LEG I



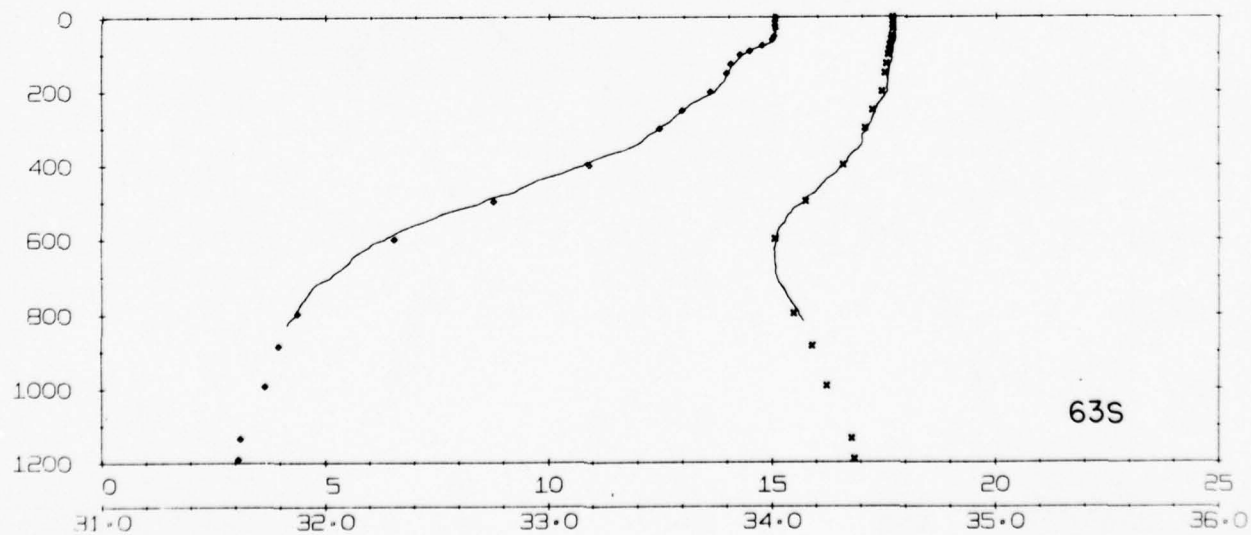
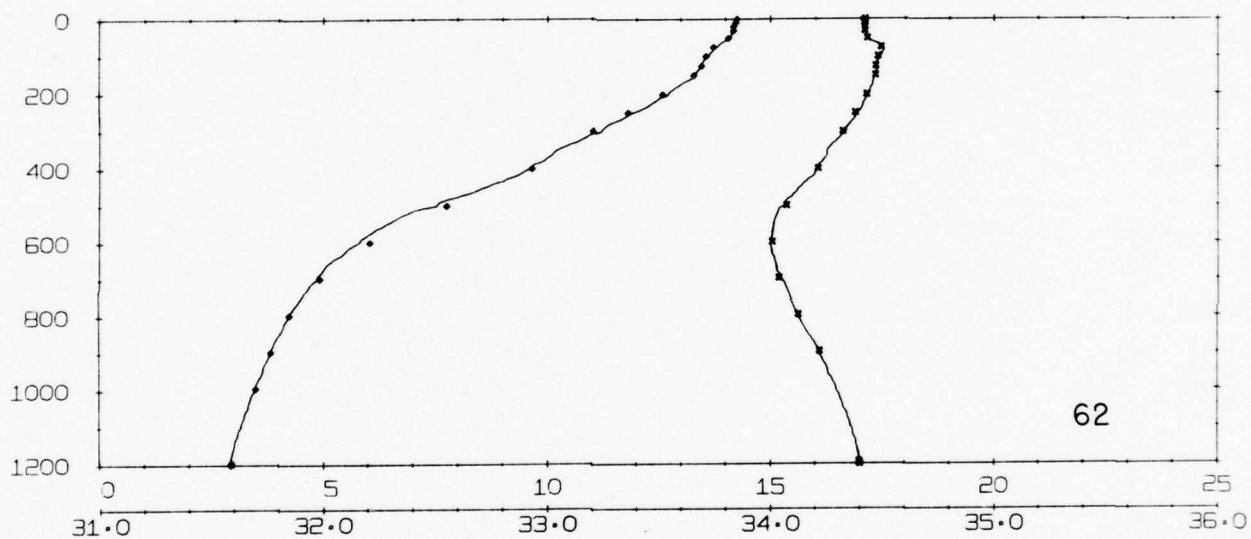
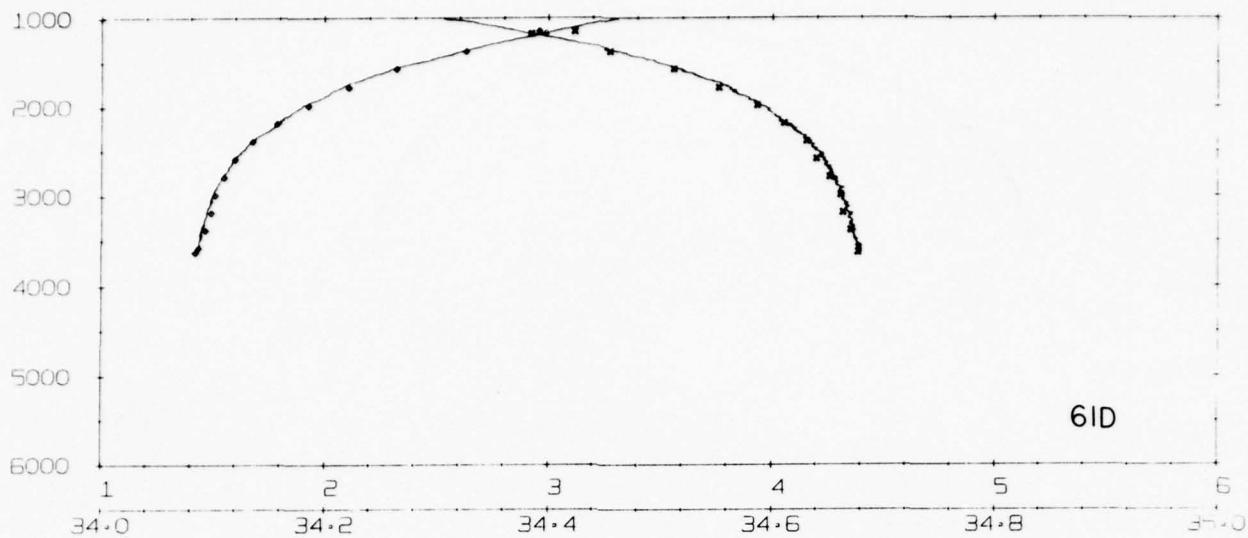
INDOPAC LEG I



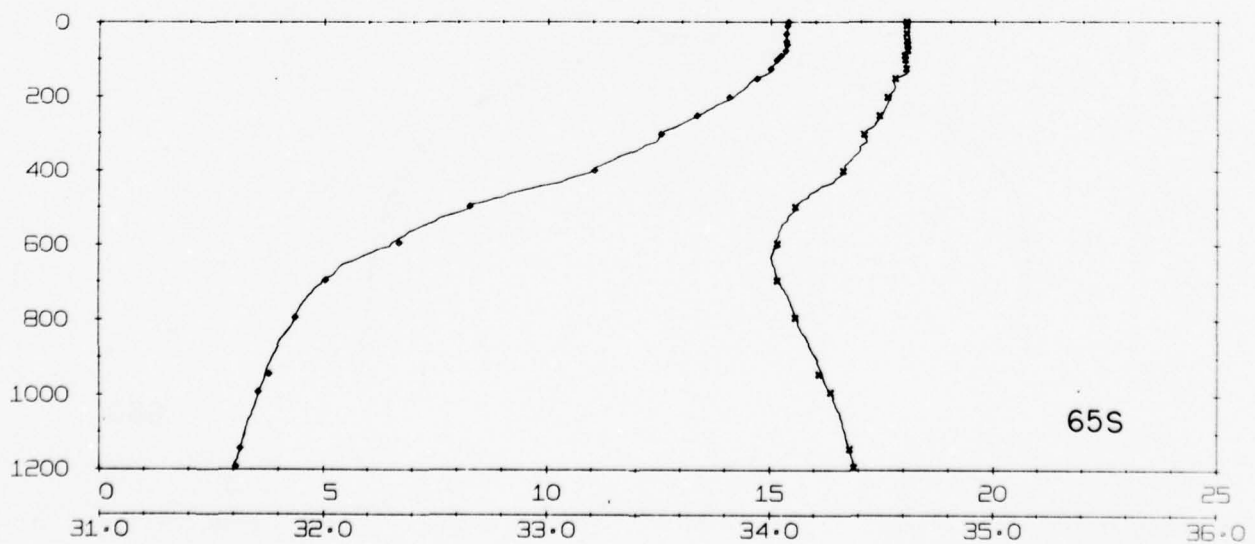
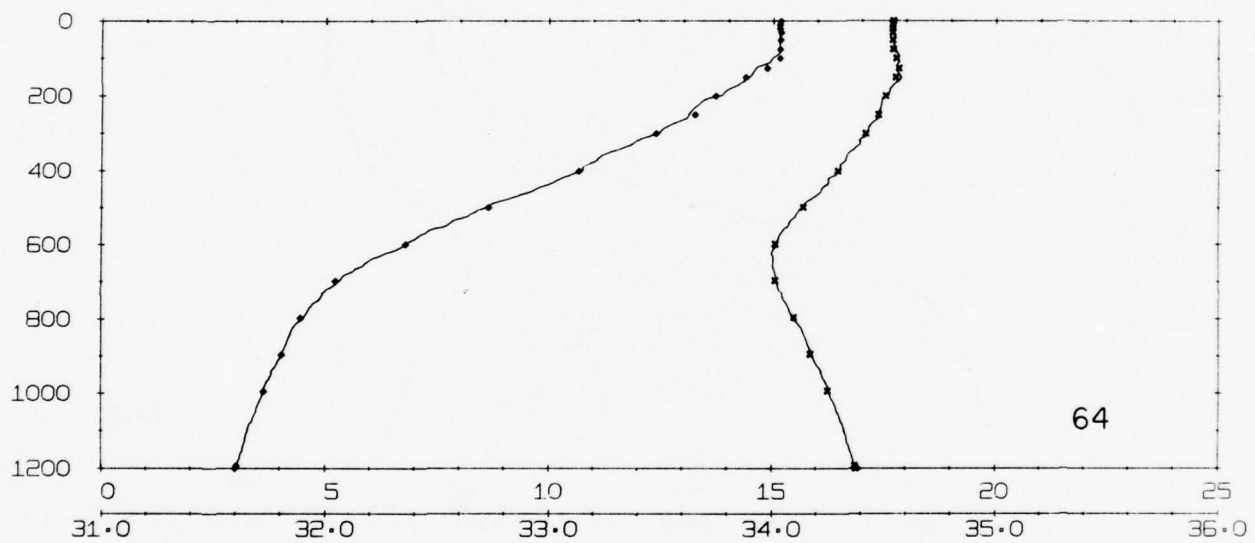
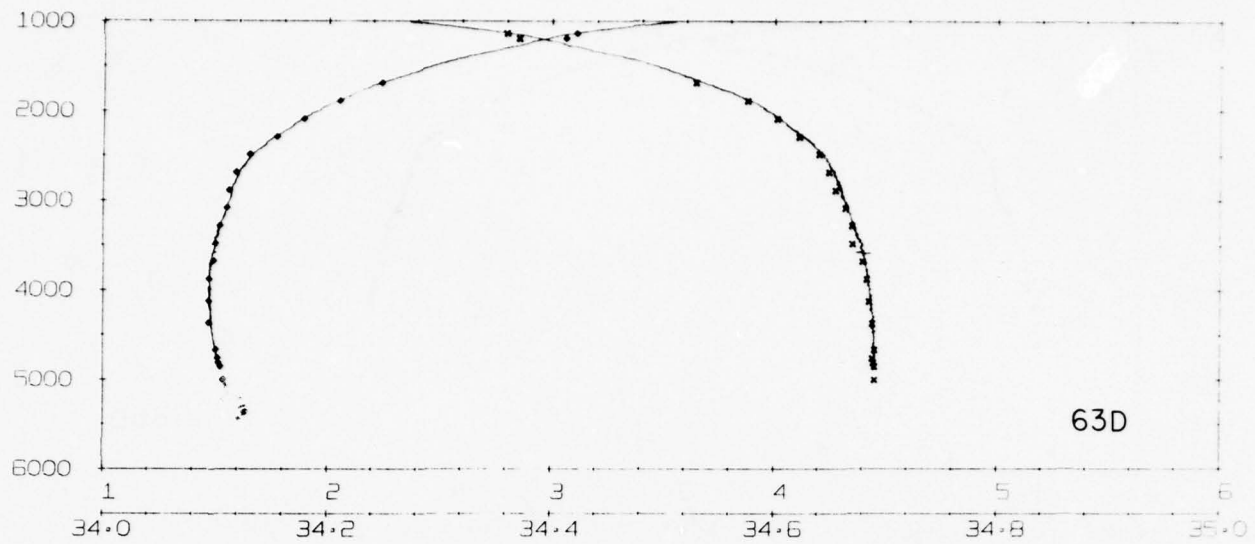
INDOPAC LEG I



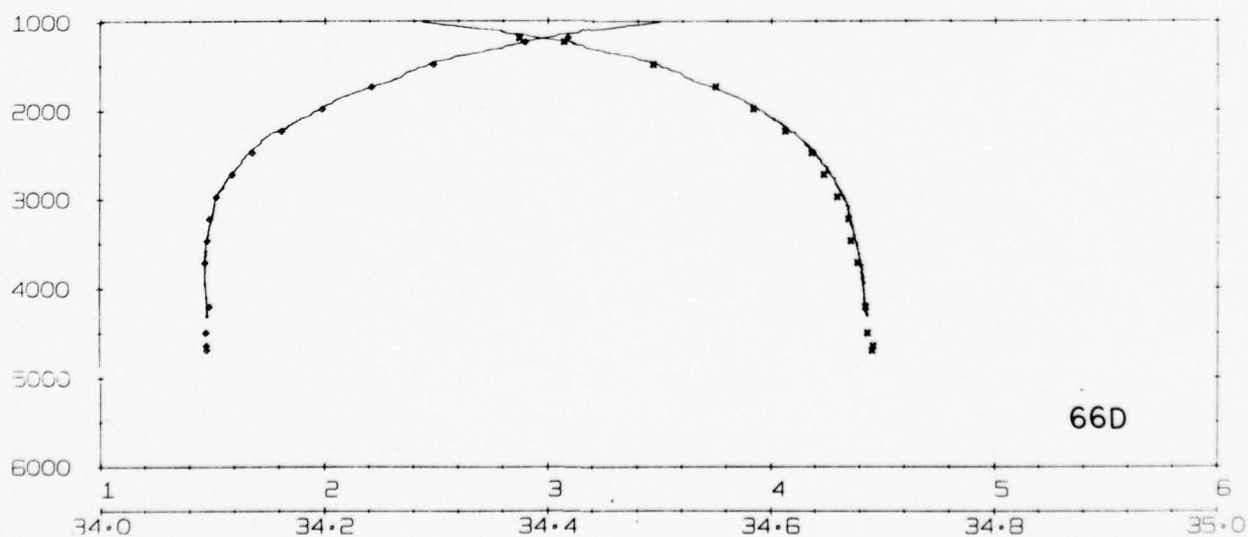
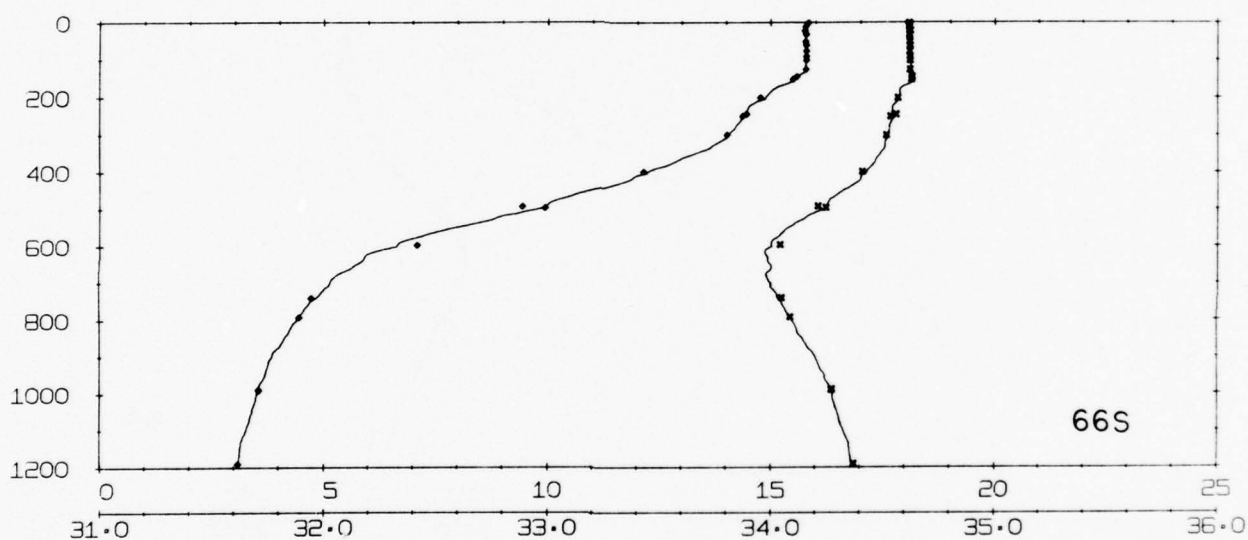
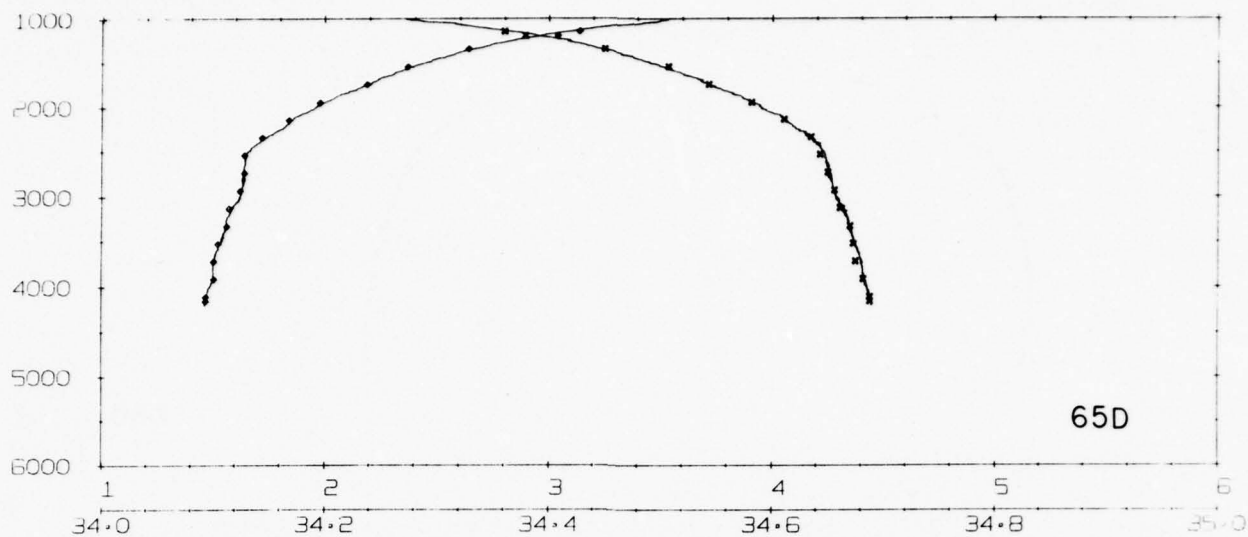
INDOPAC LEG I



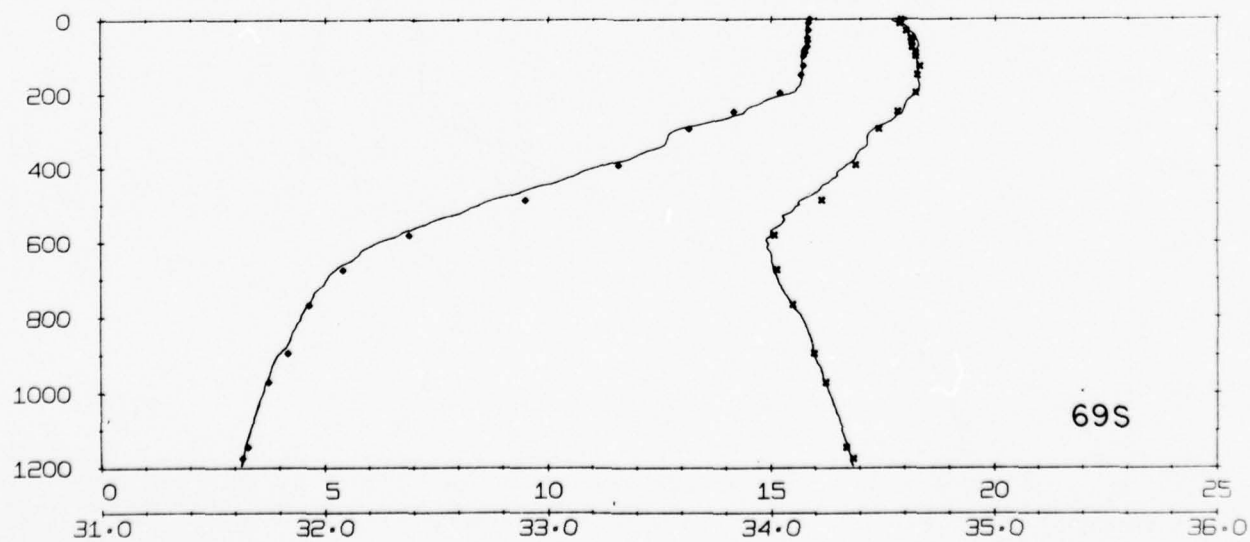
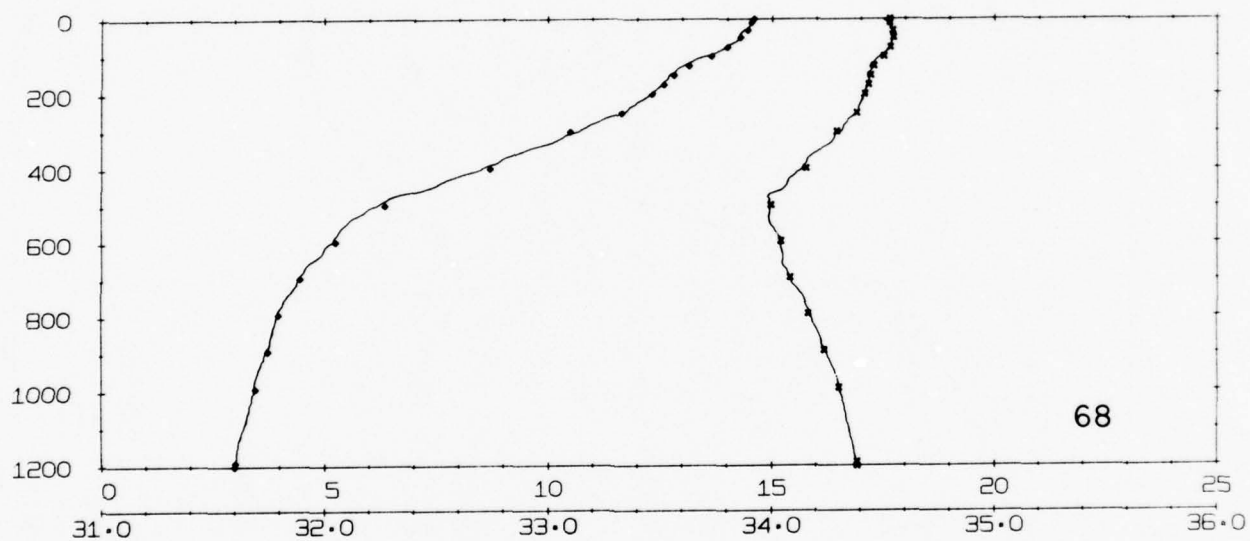
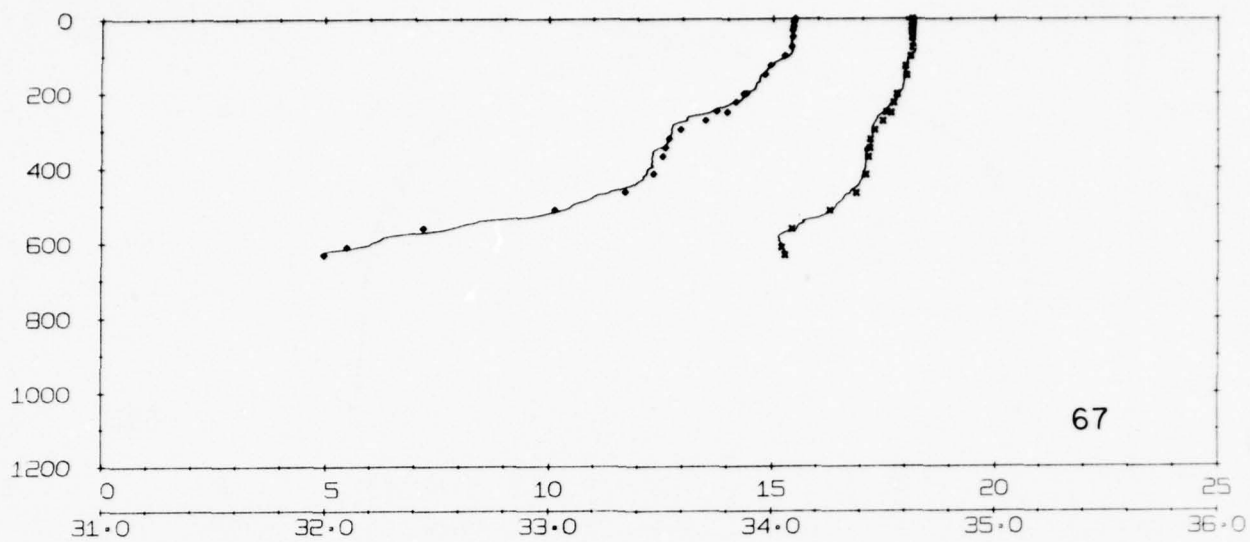
INDOPAC LEG I



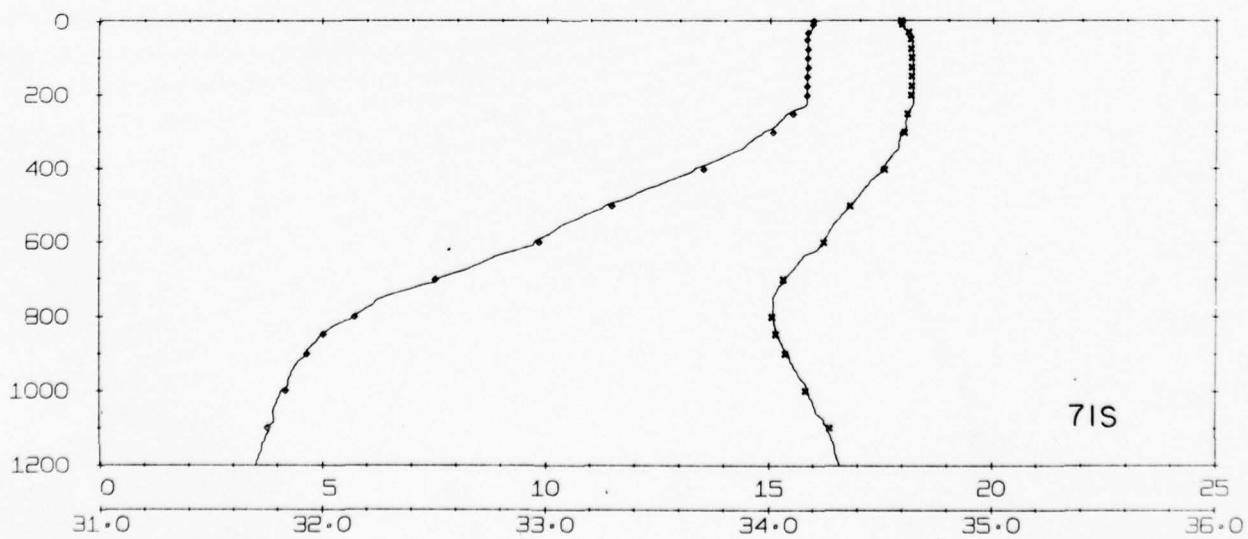
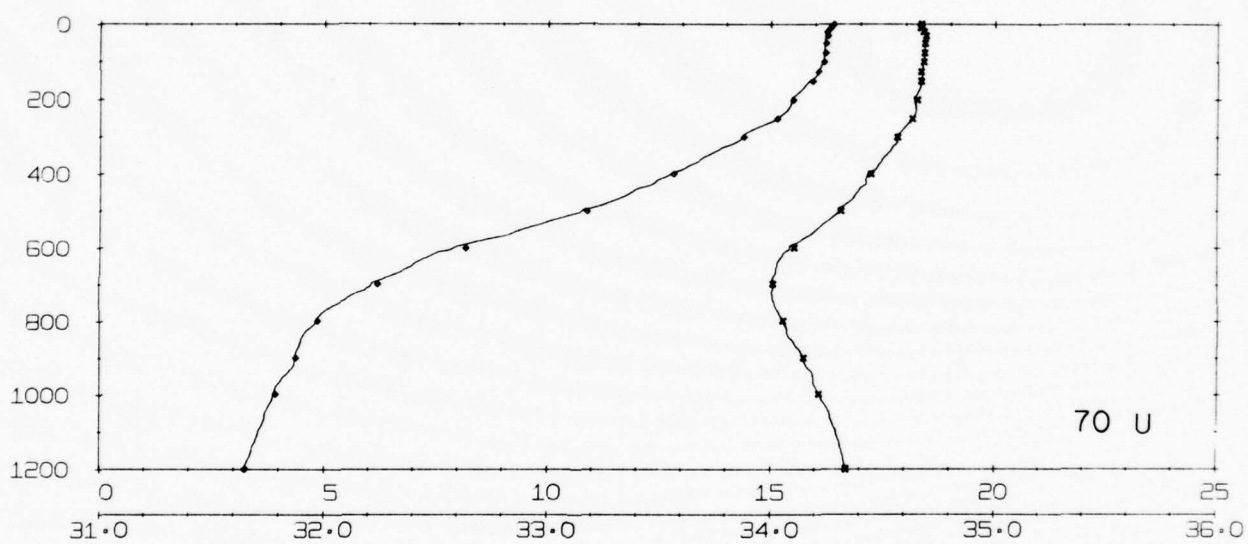
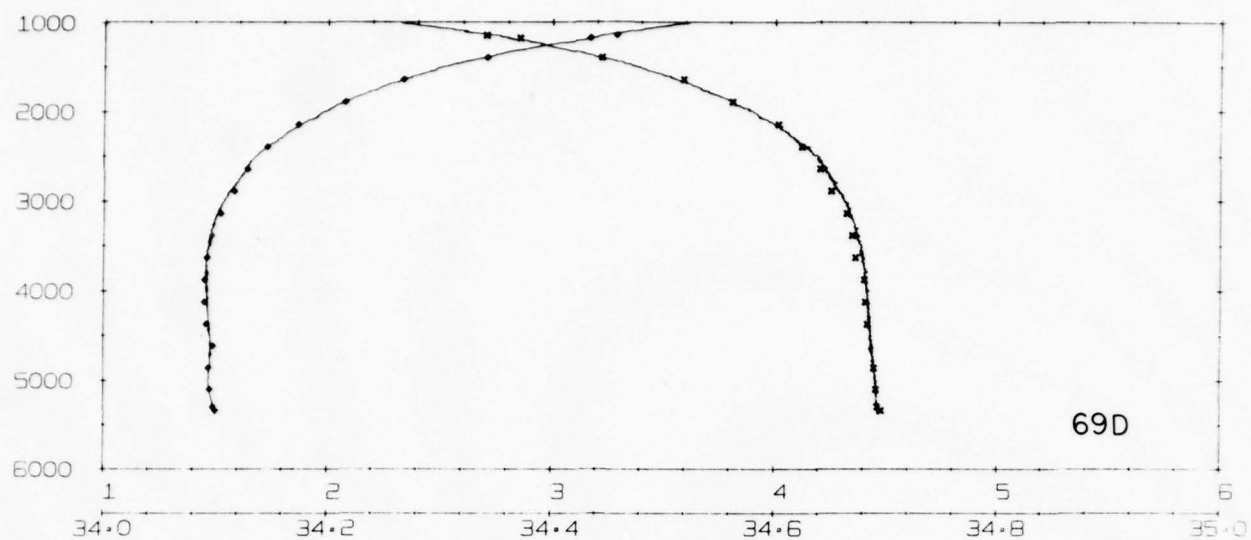
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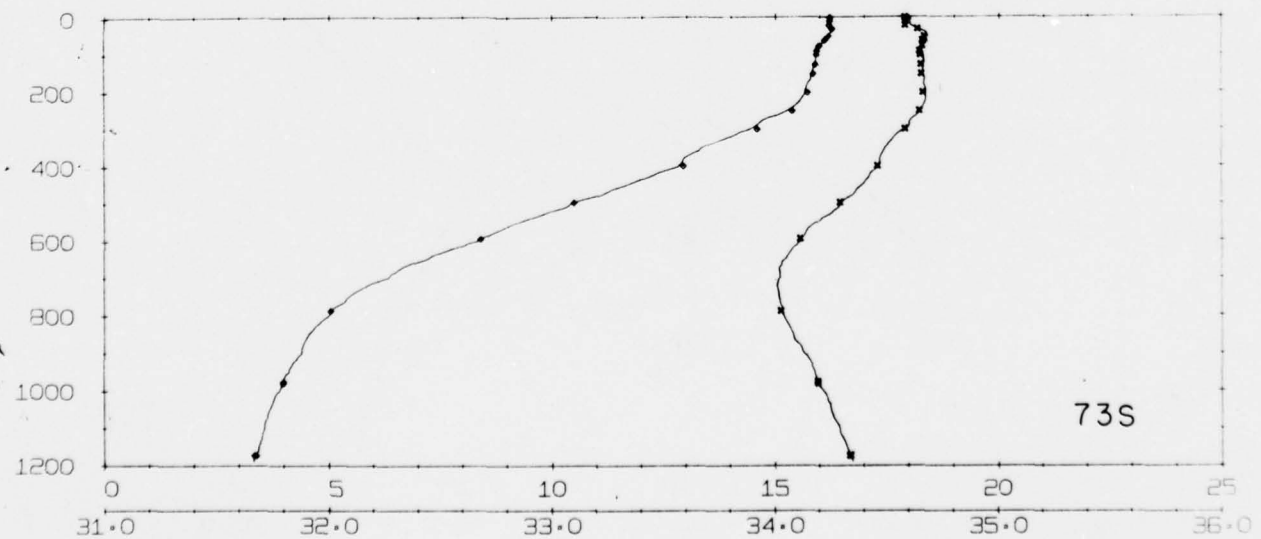
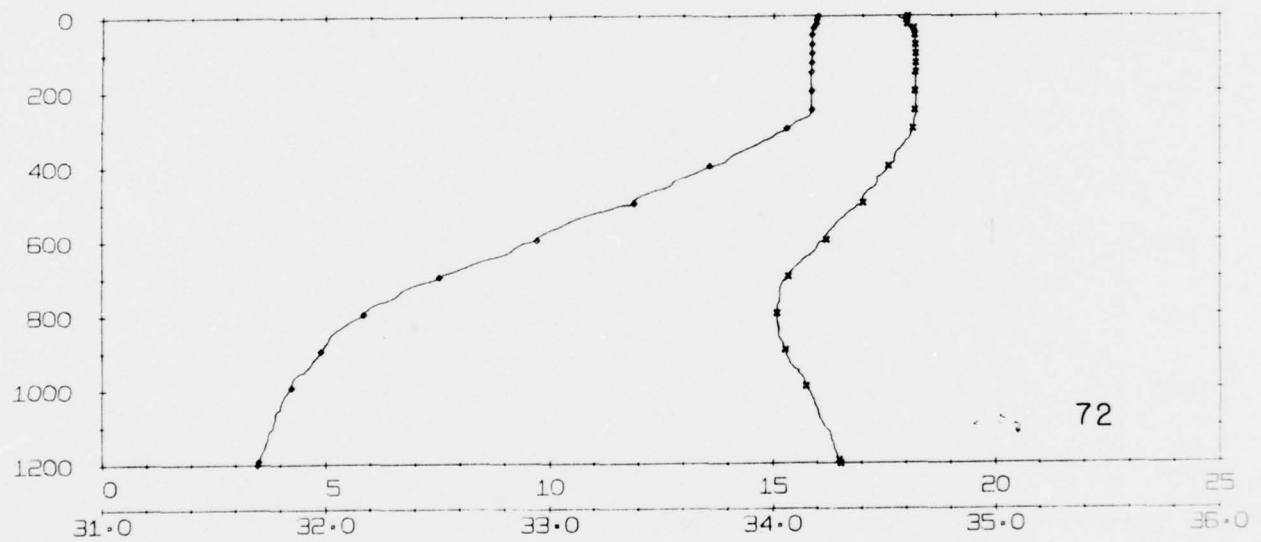
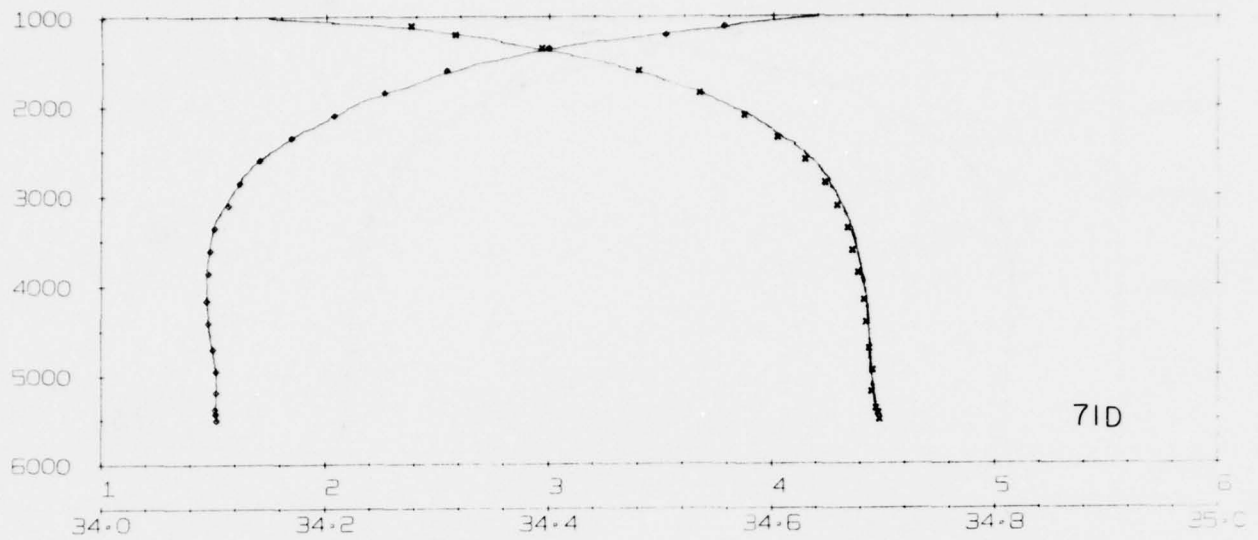
INDOPAC LEG I



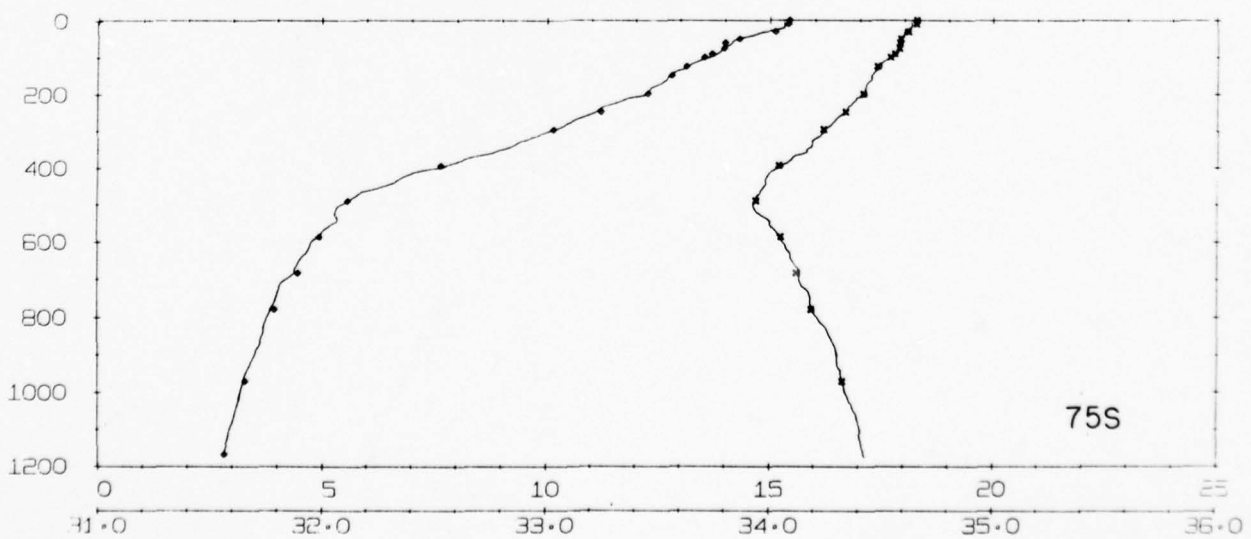
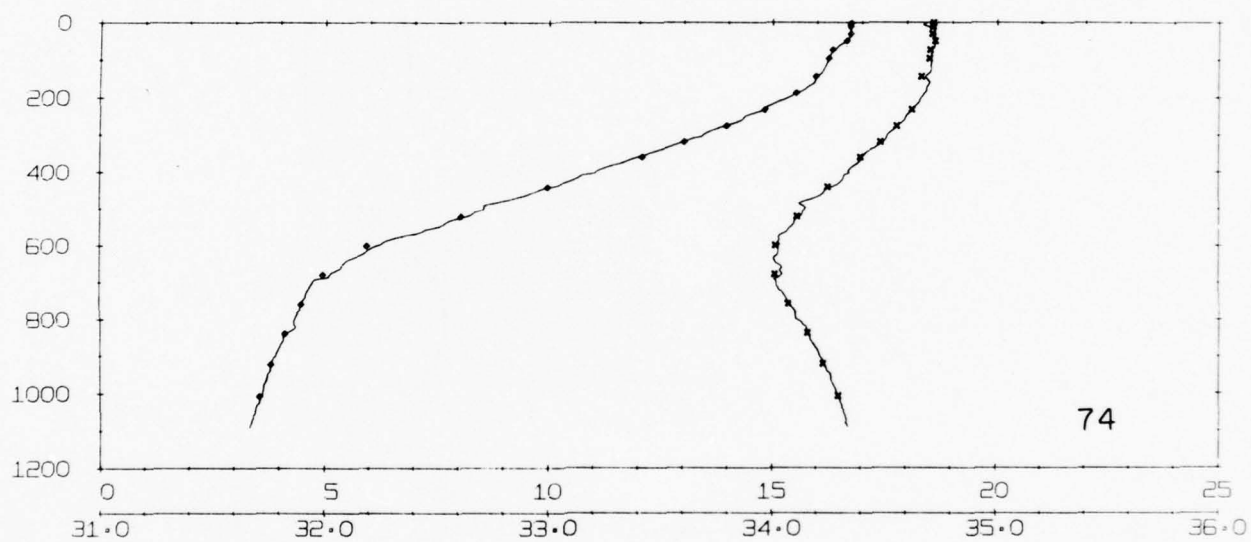
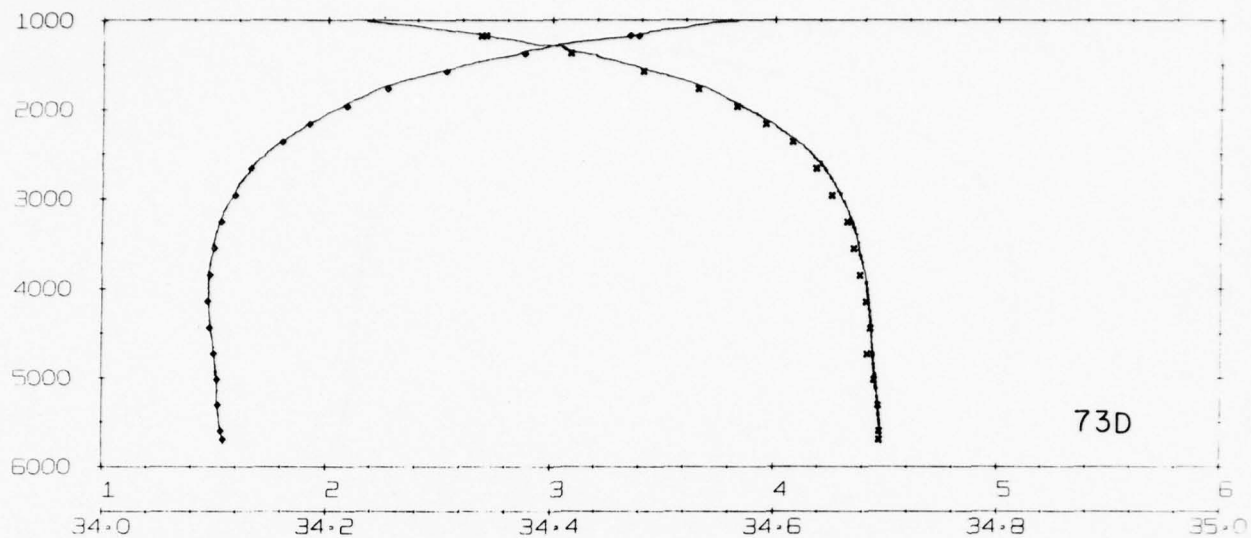
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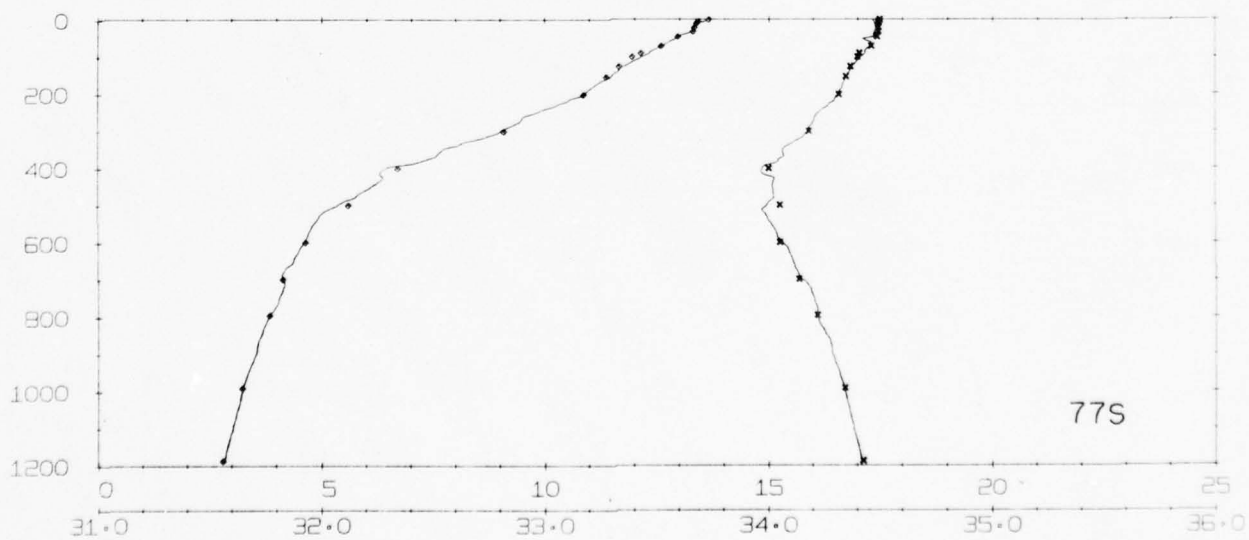
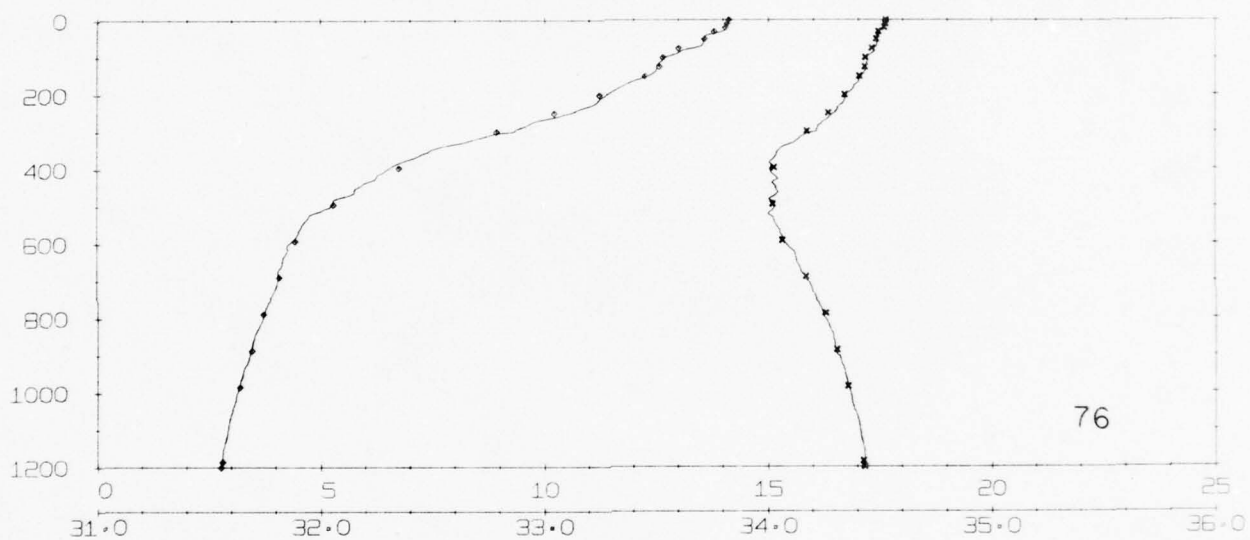
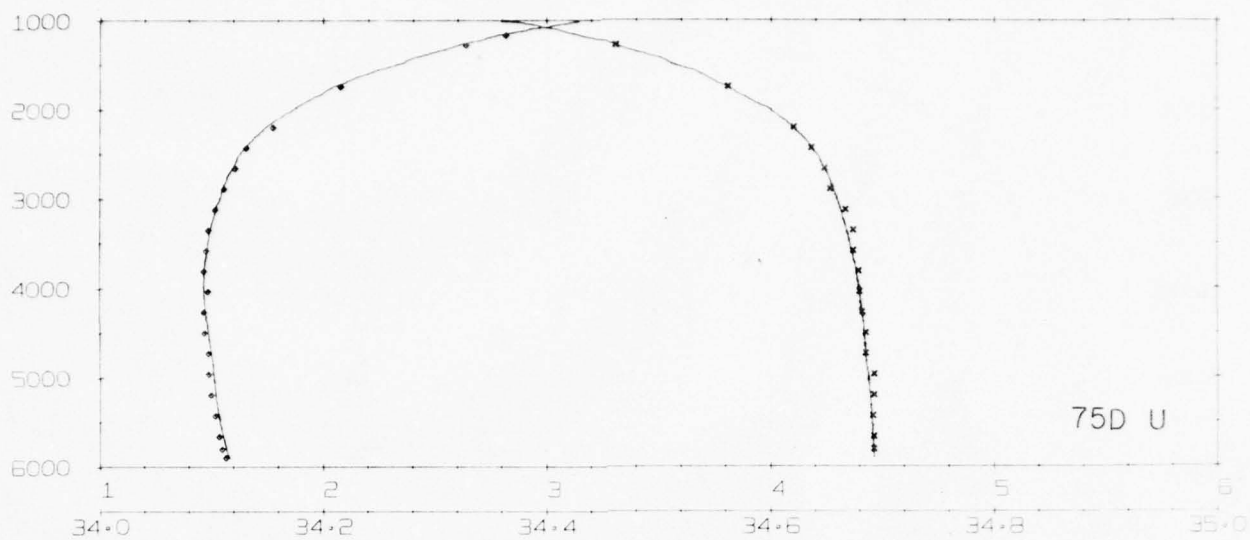
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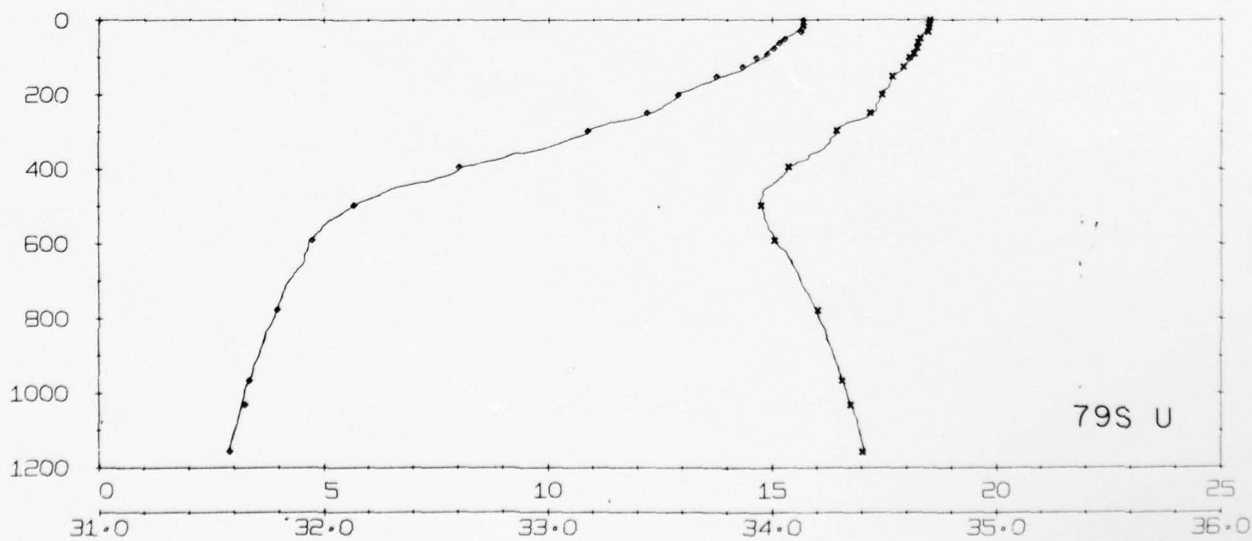
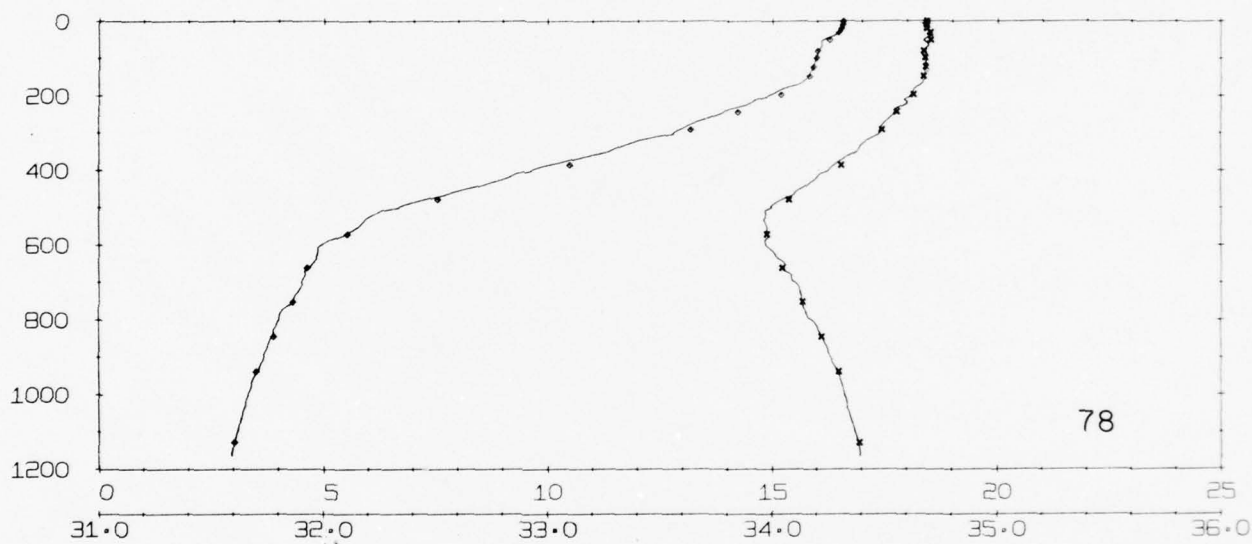
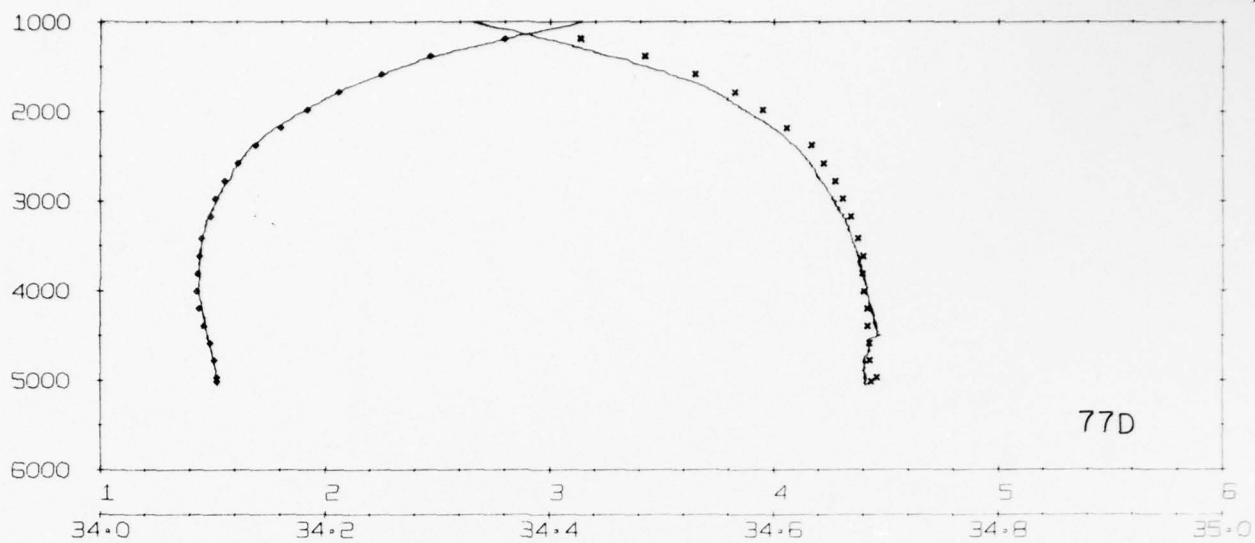
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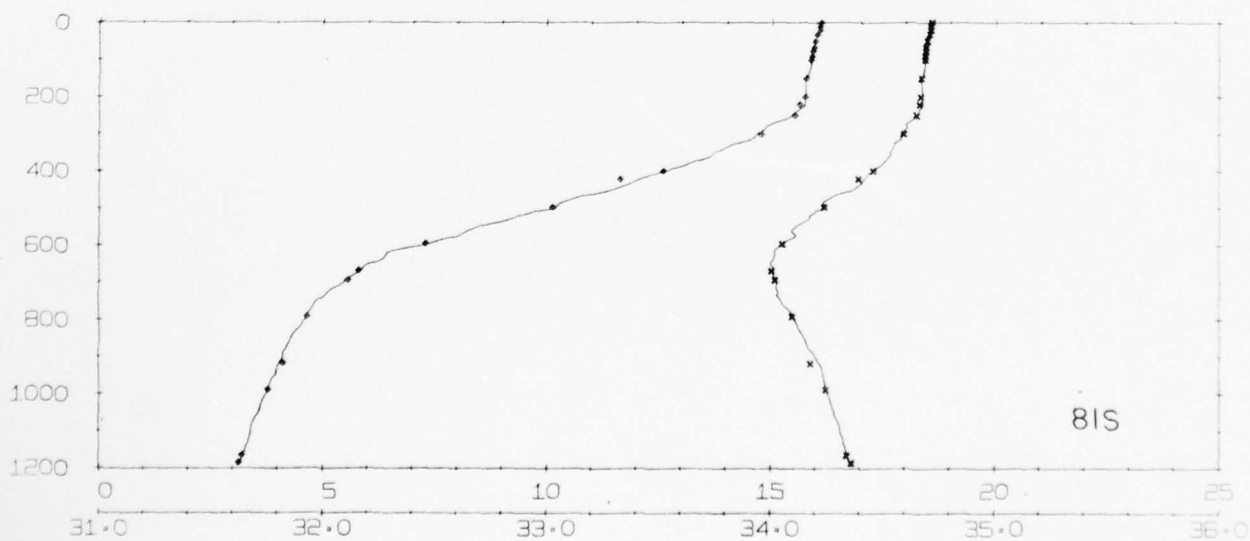
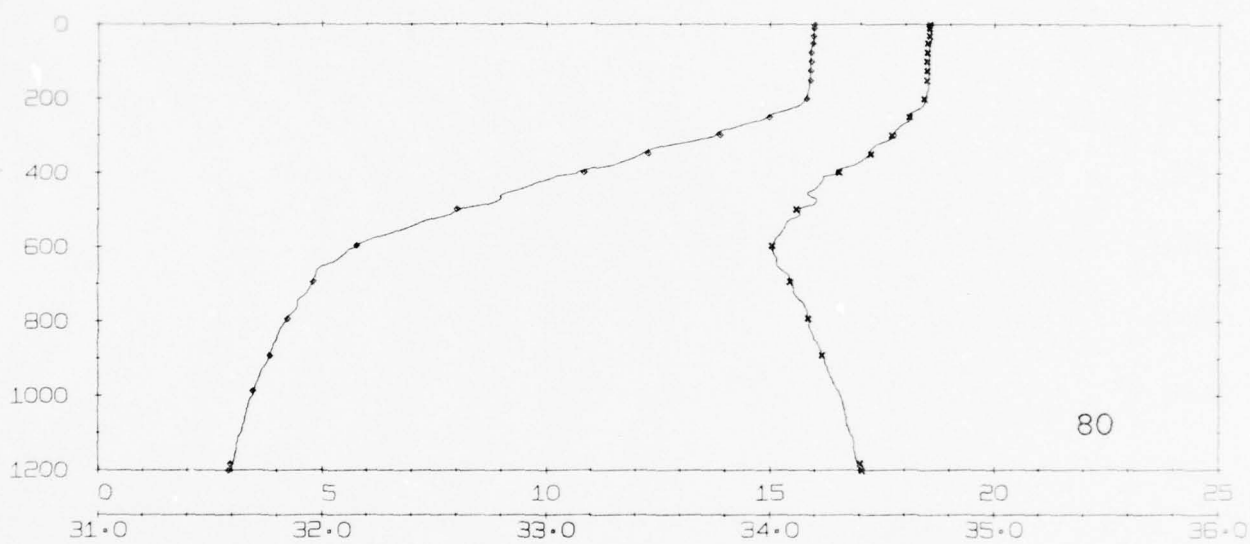
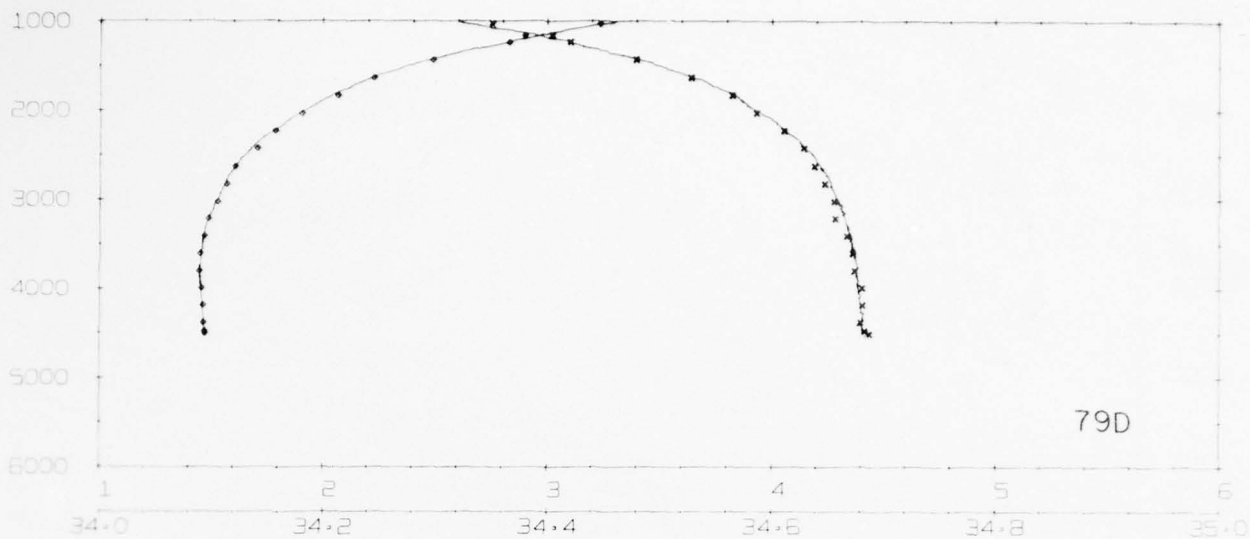
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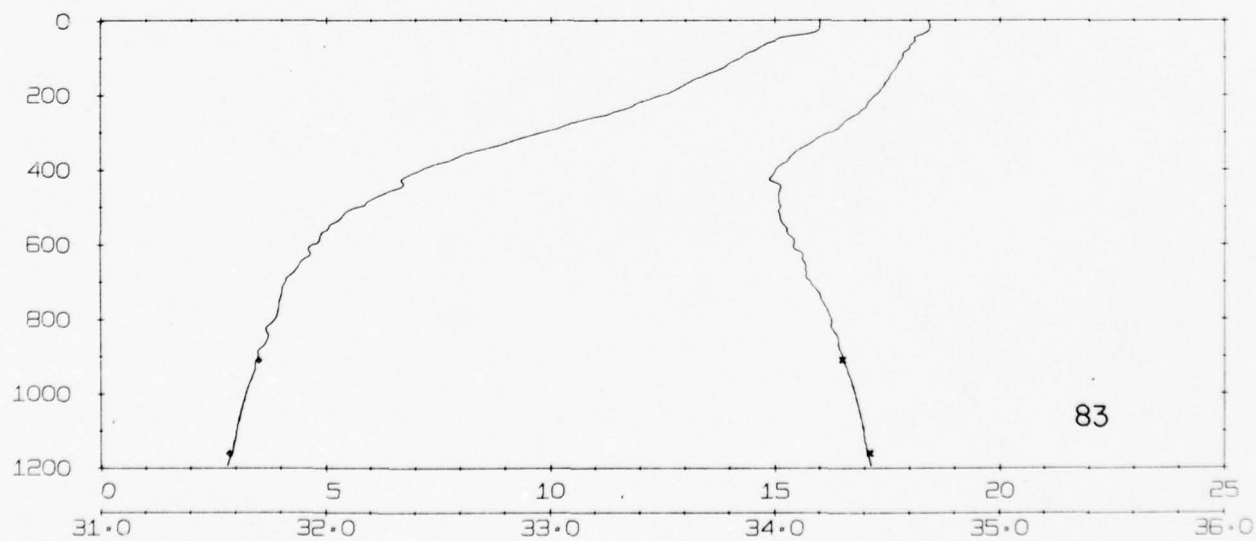
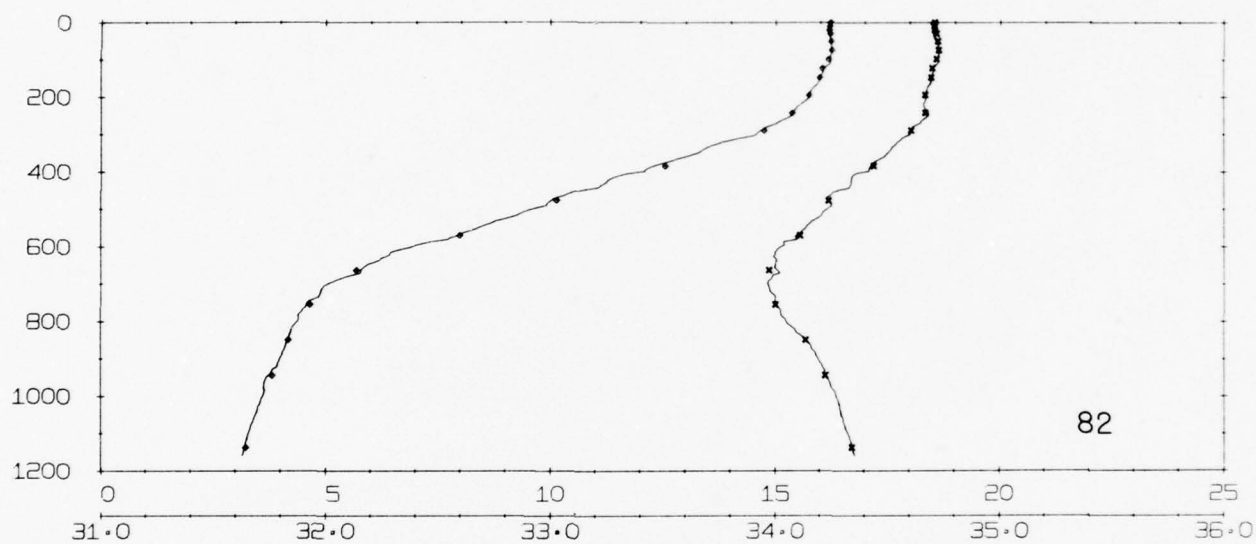
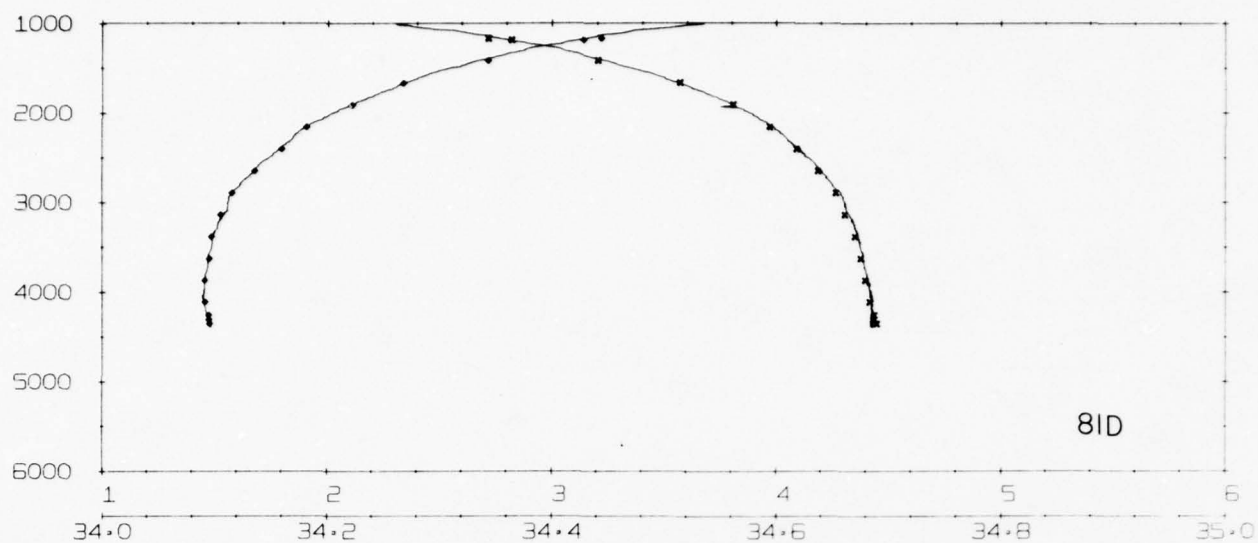
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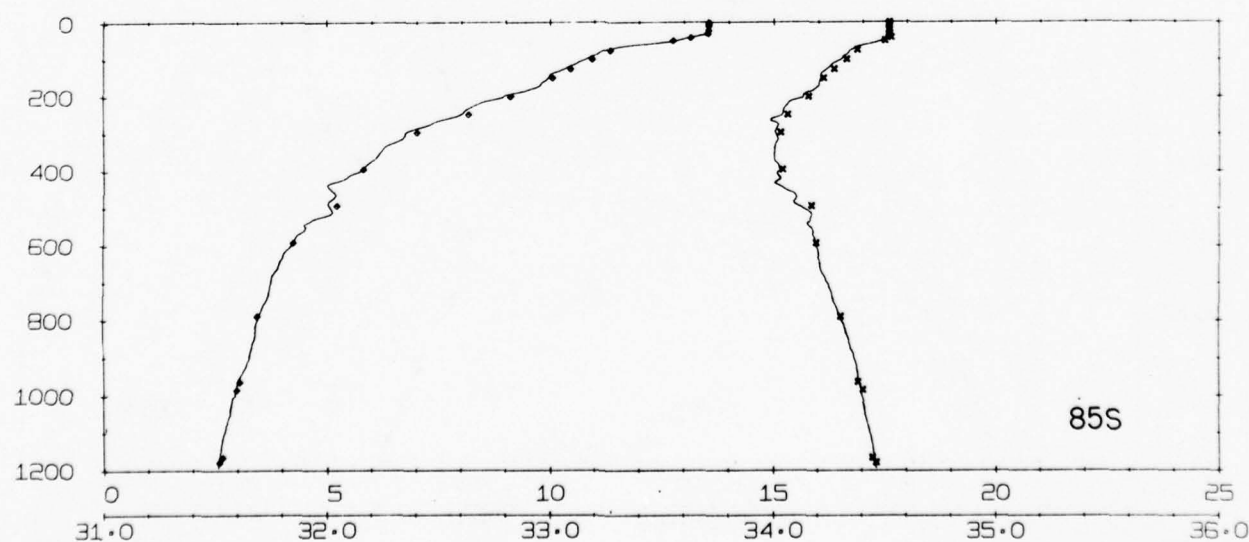
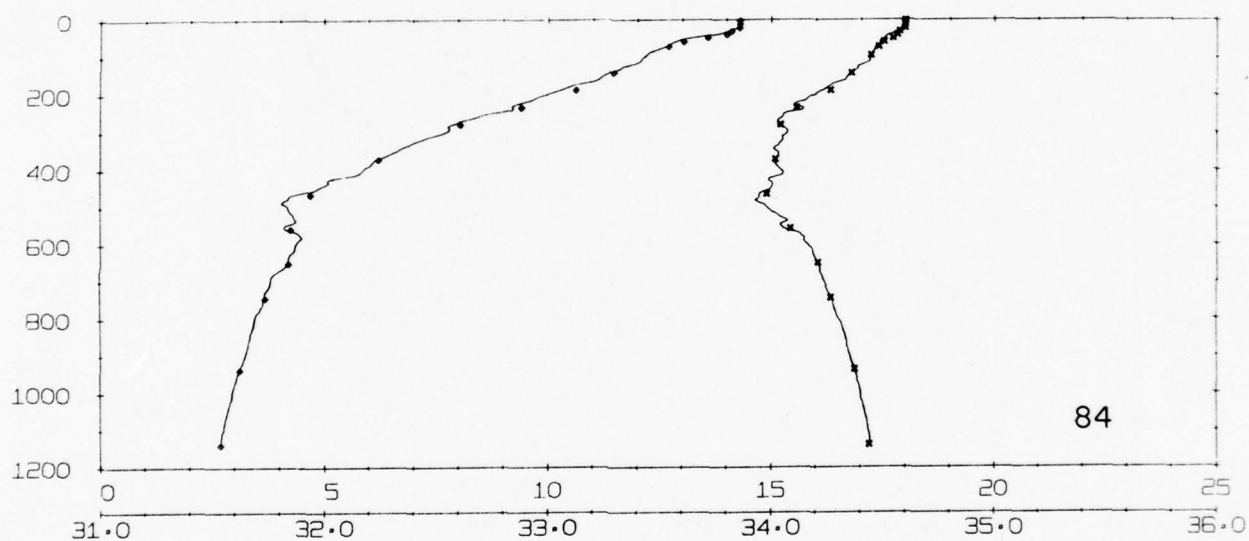
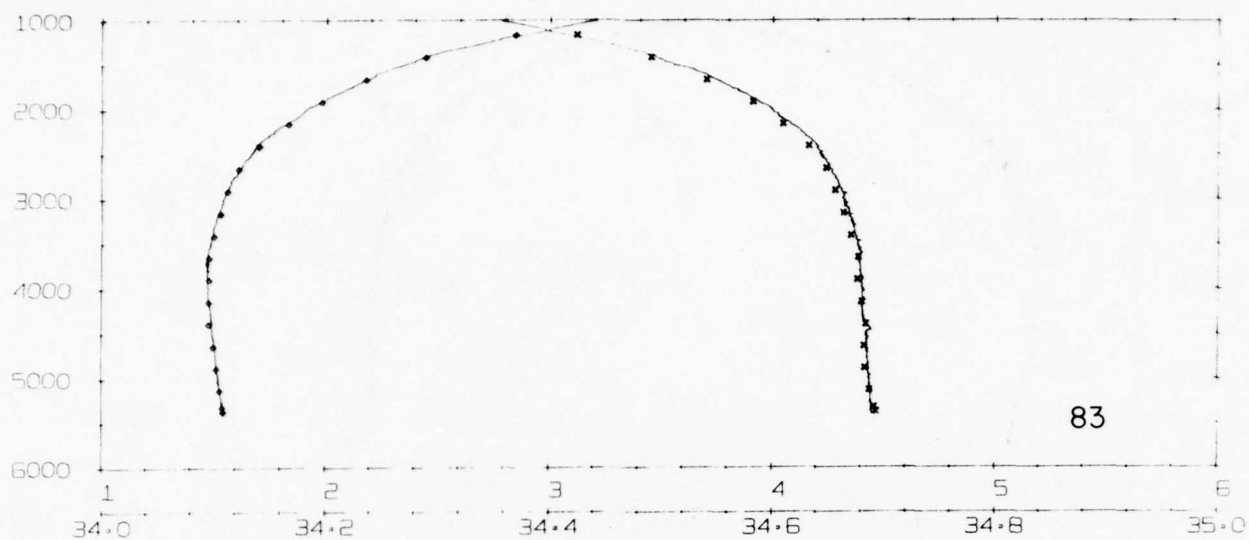
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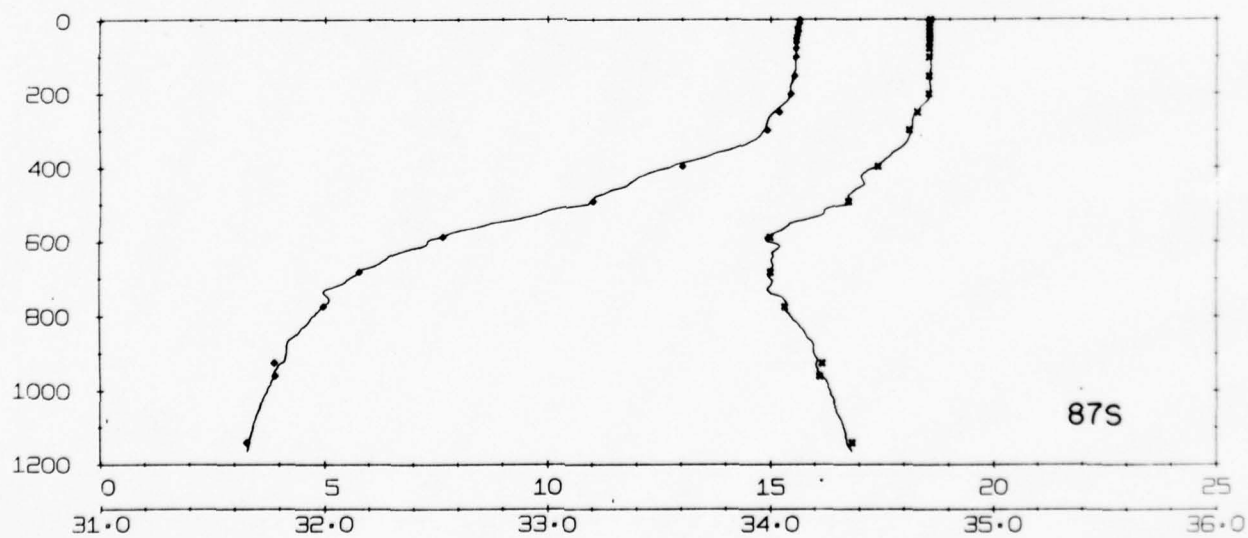
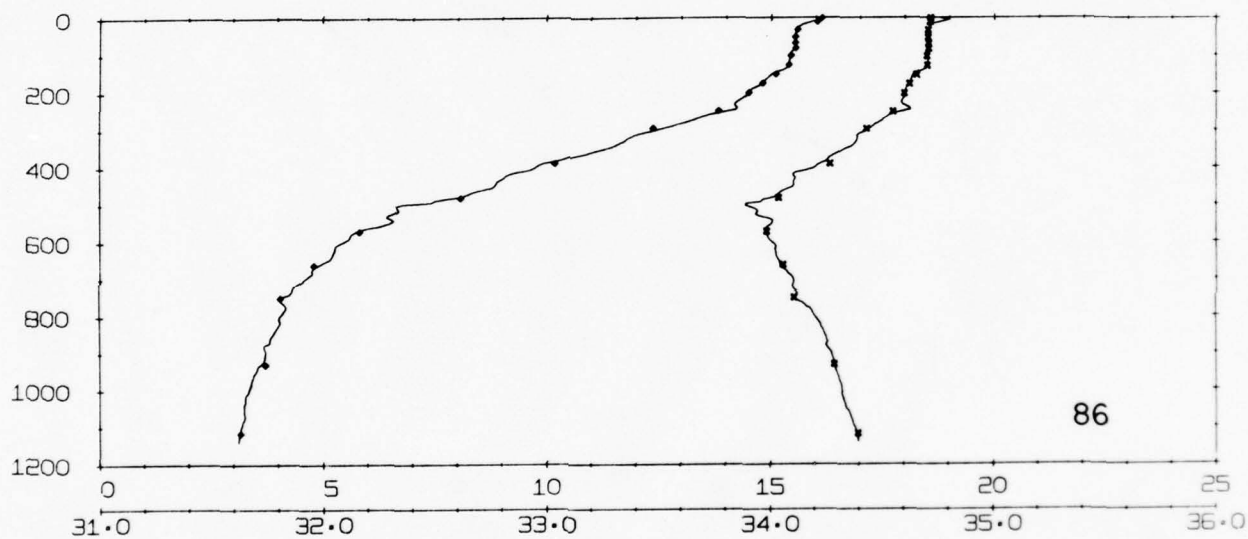
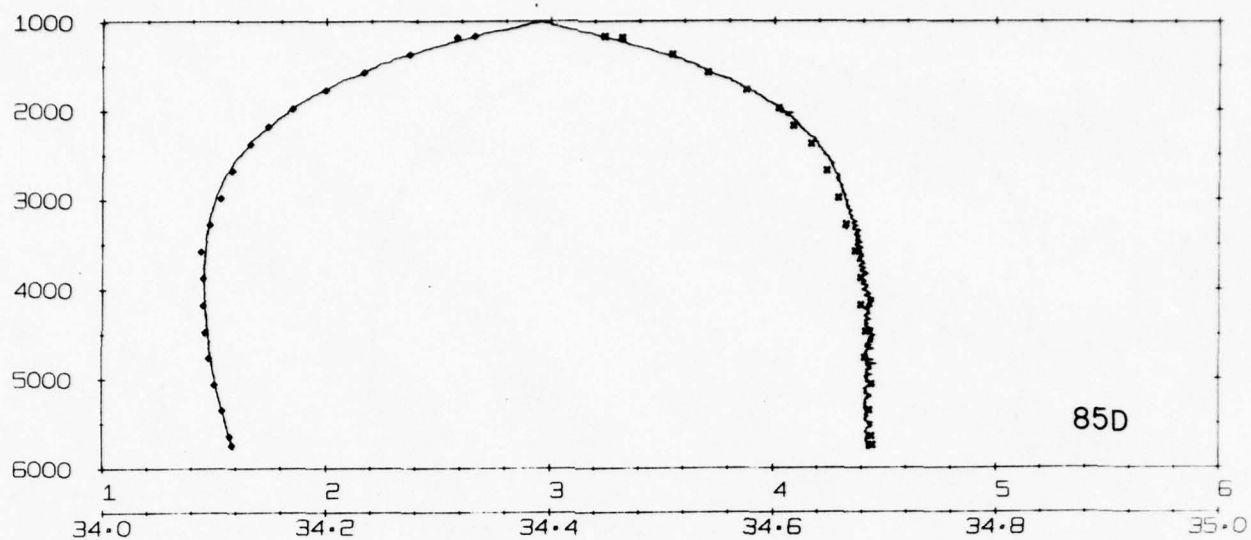
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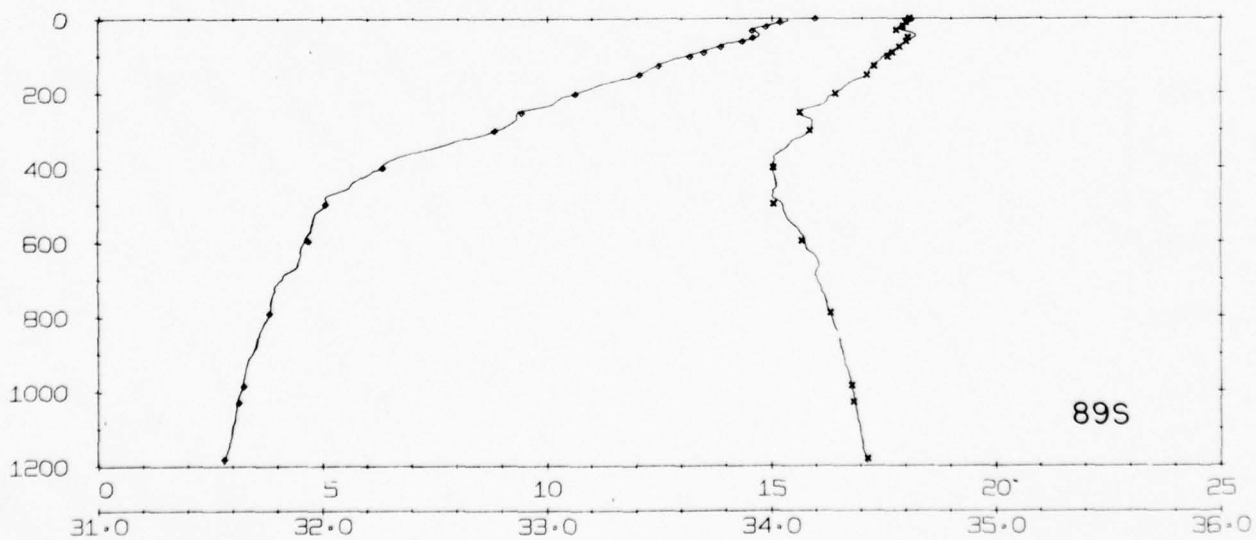
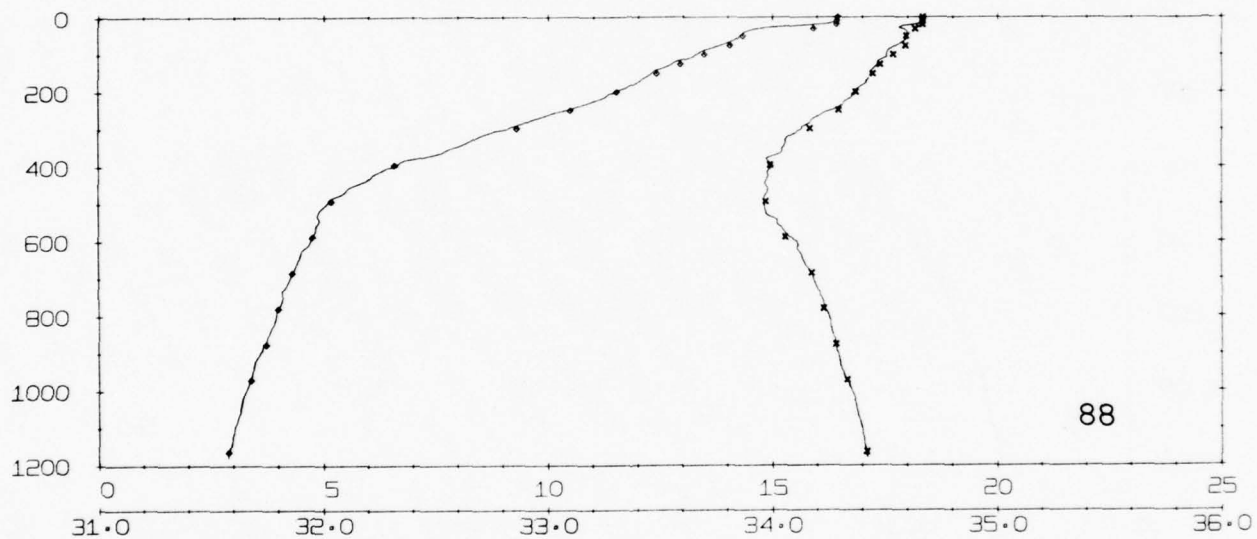
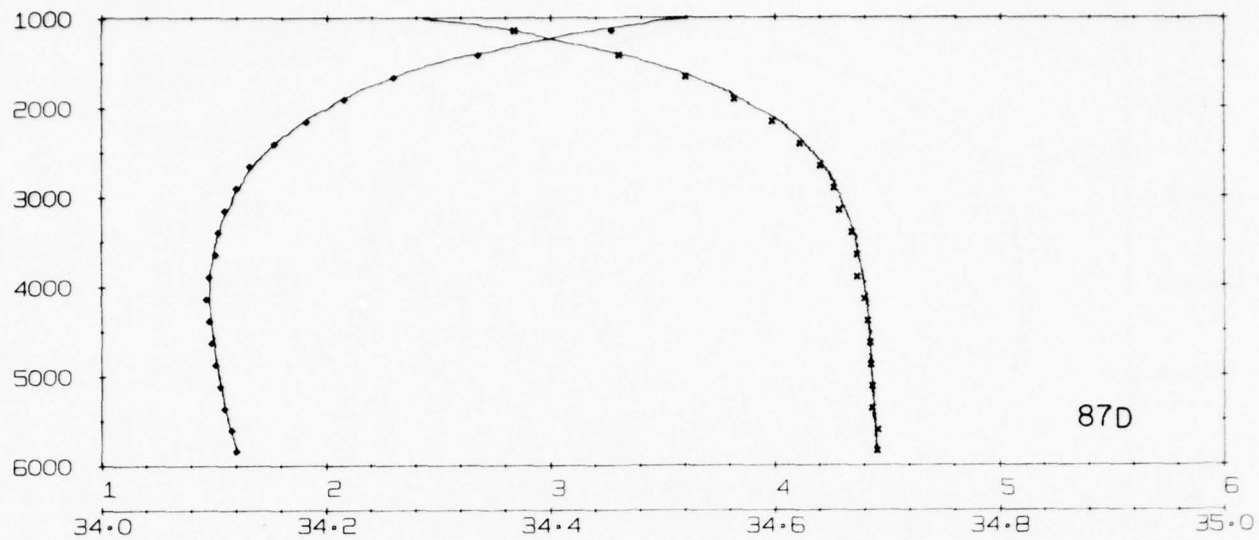
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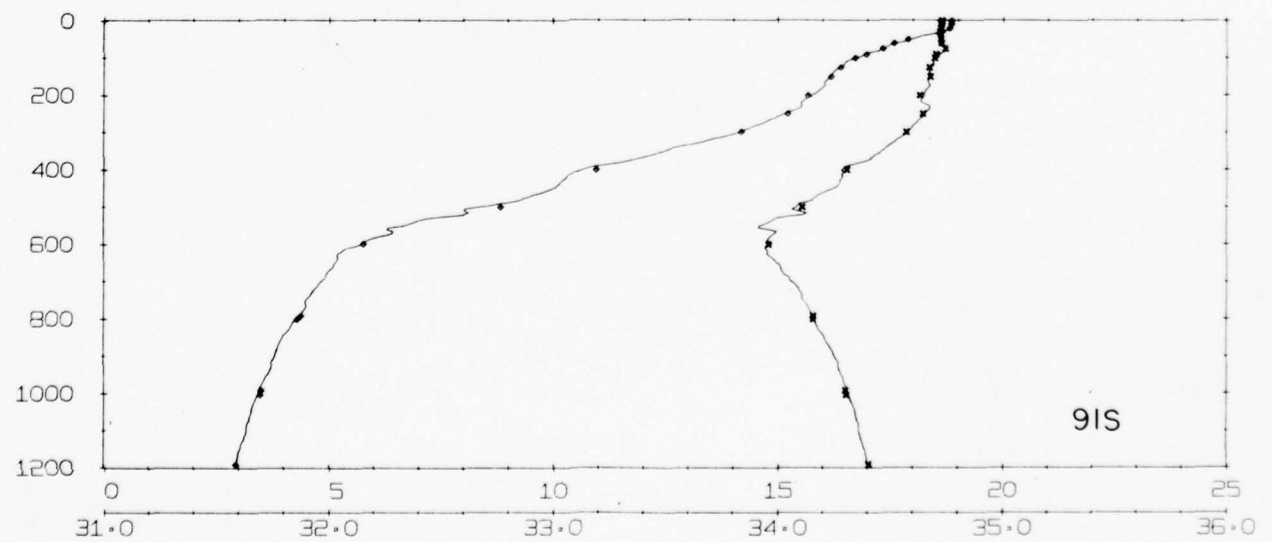
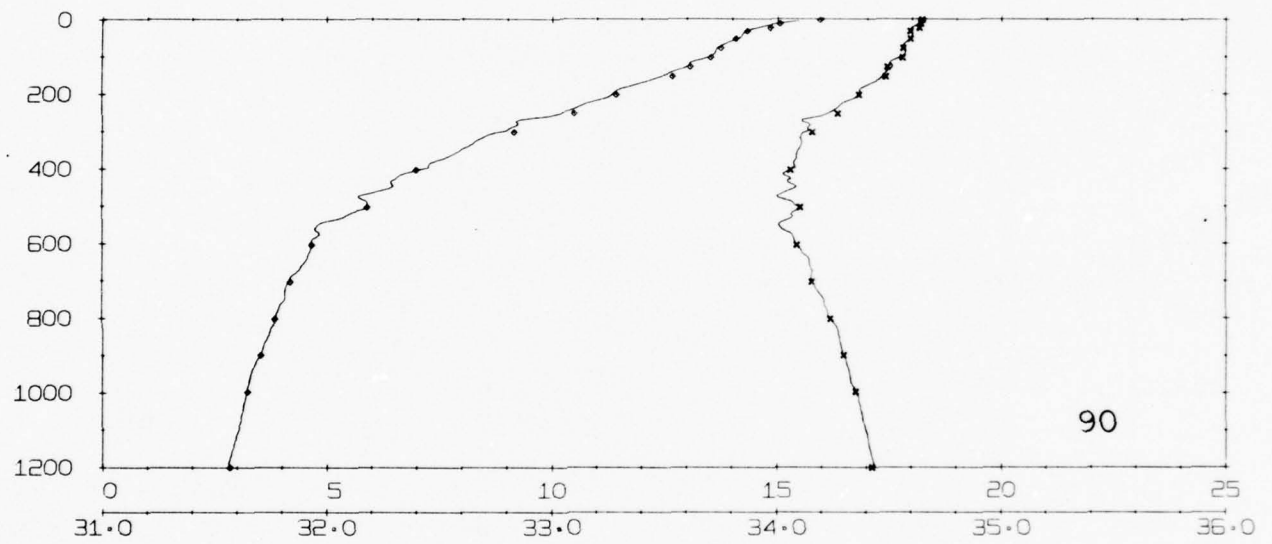
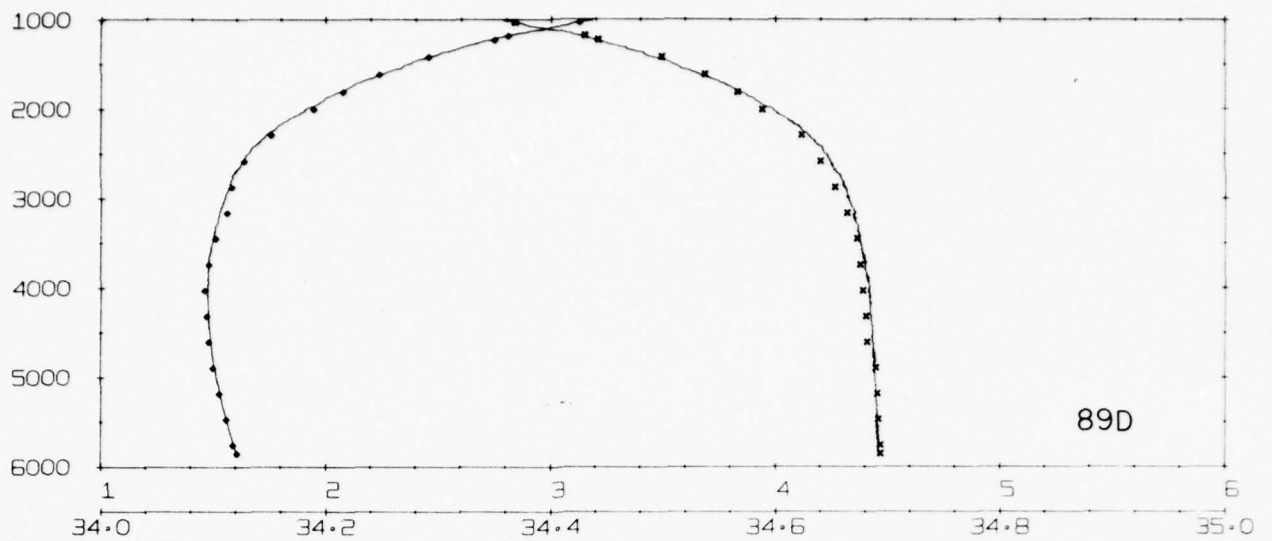
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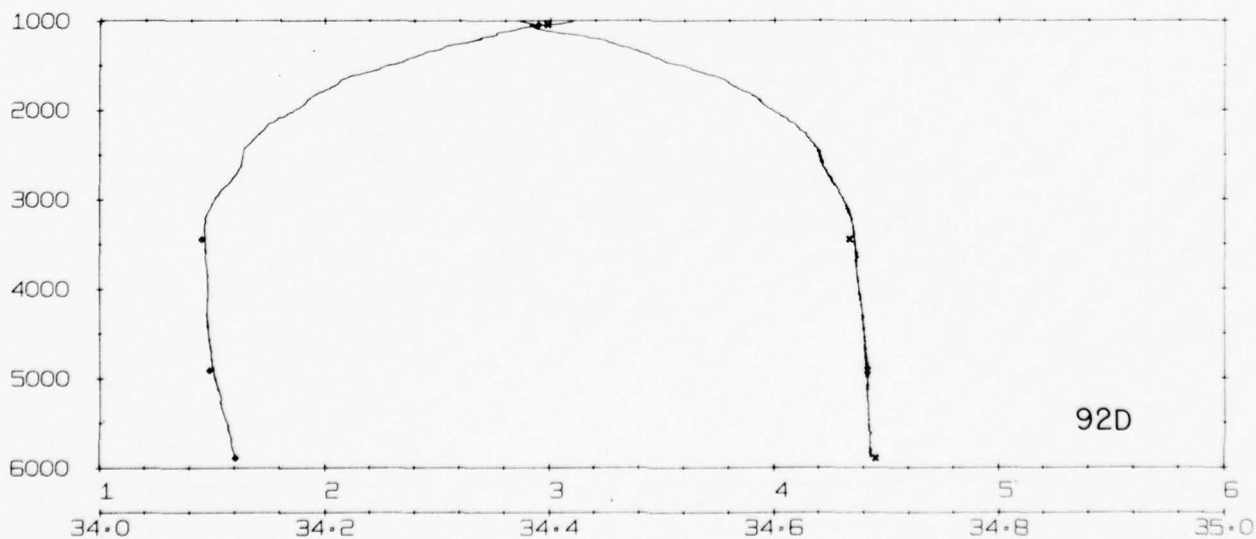
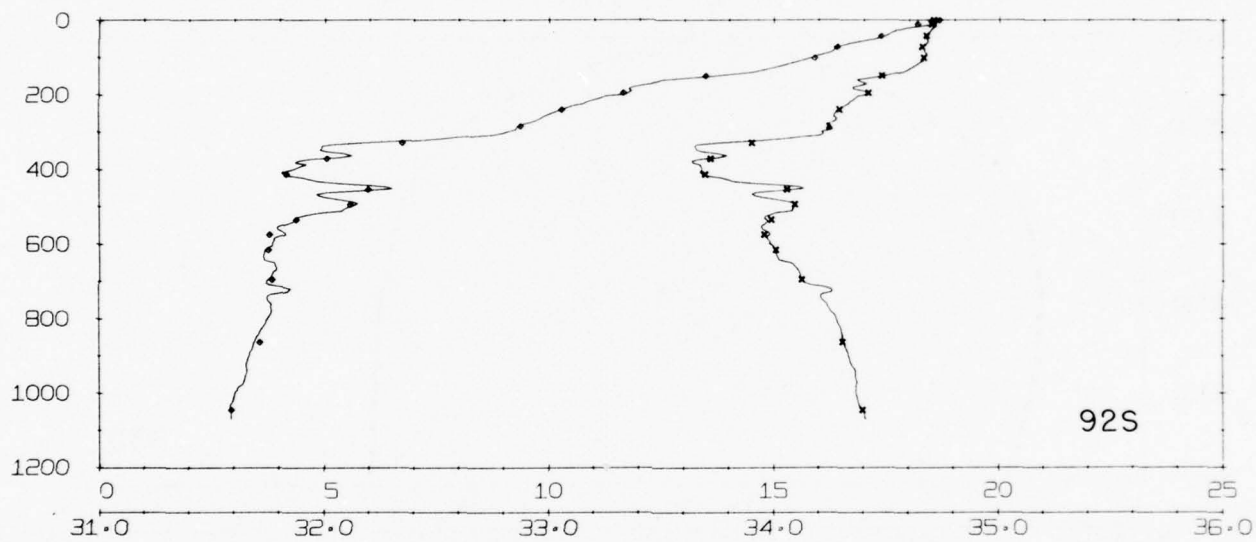
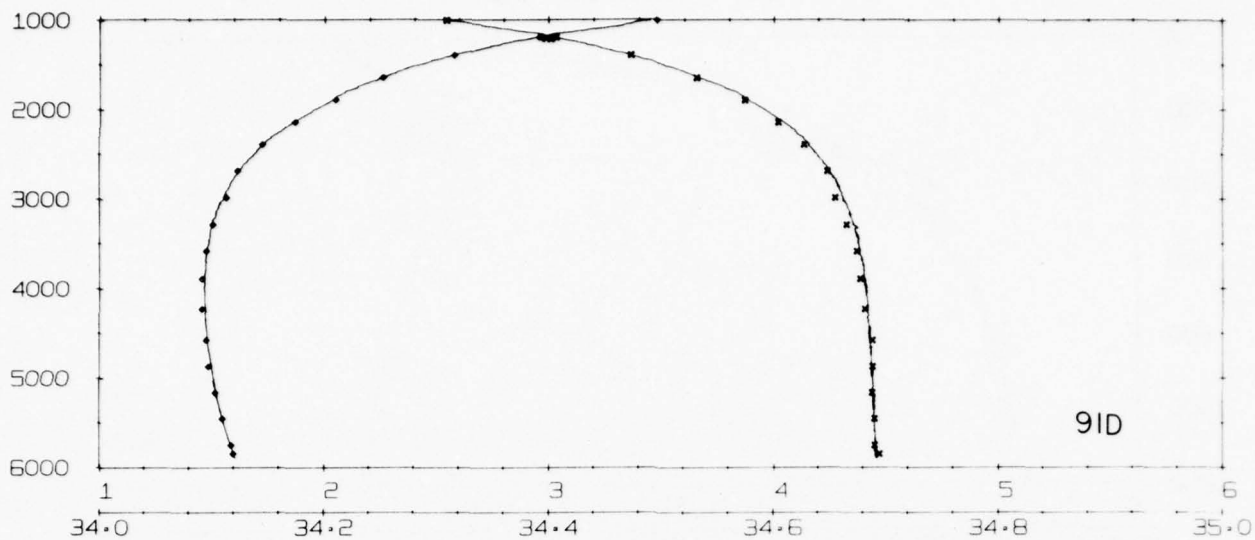
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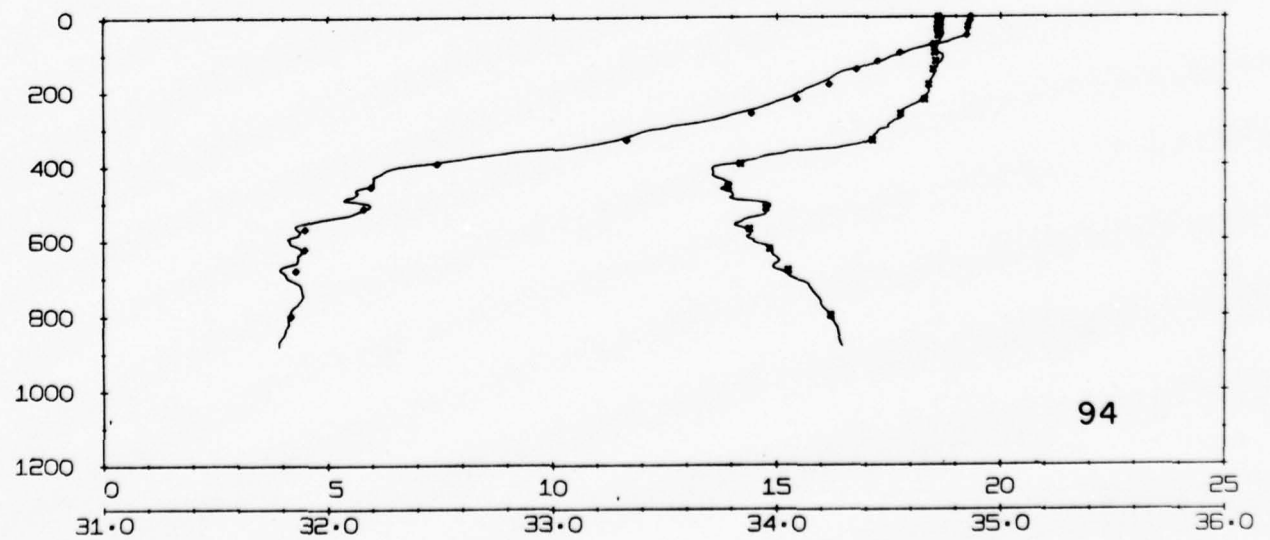
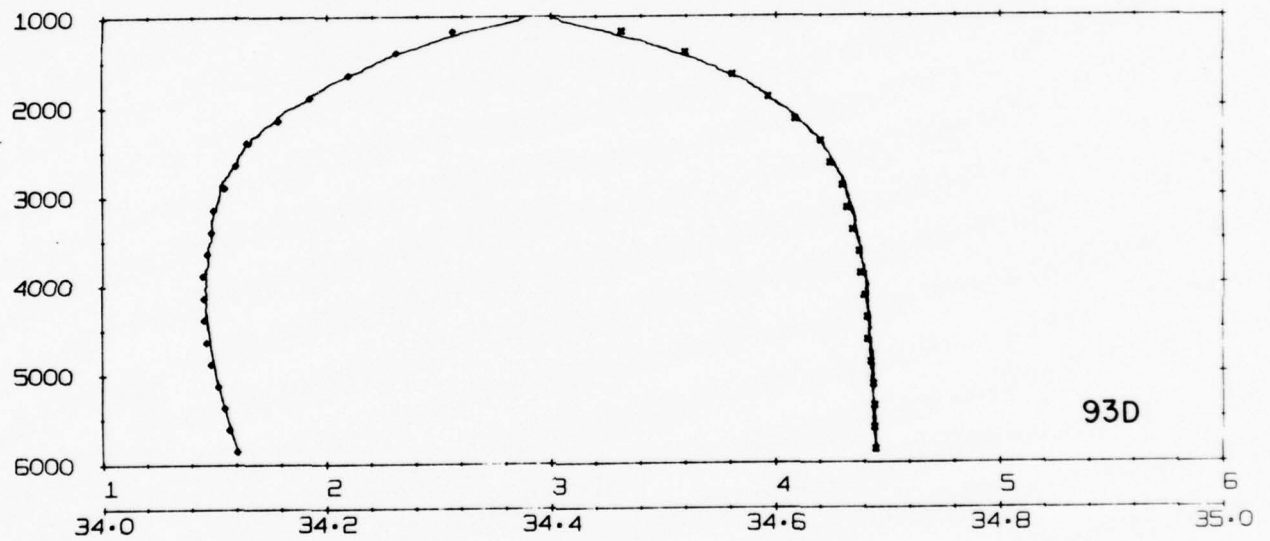
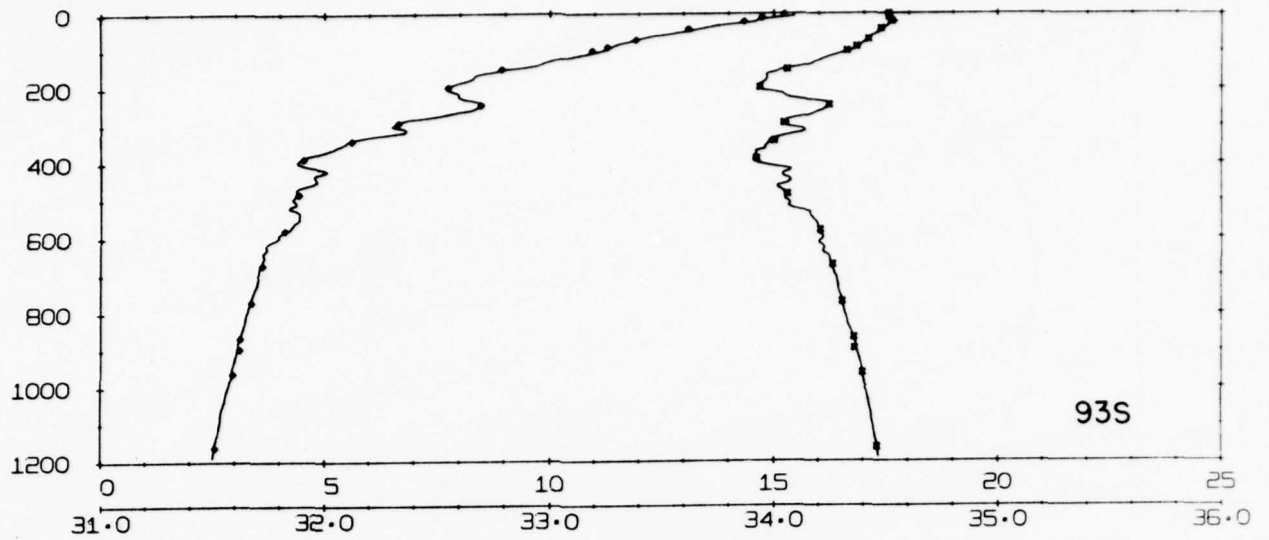
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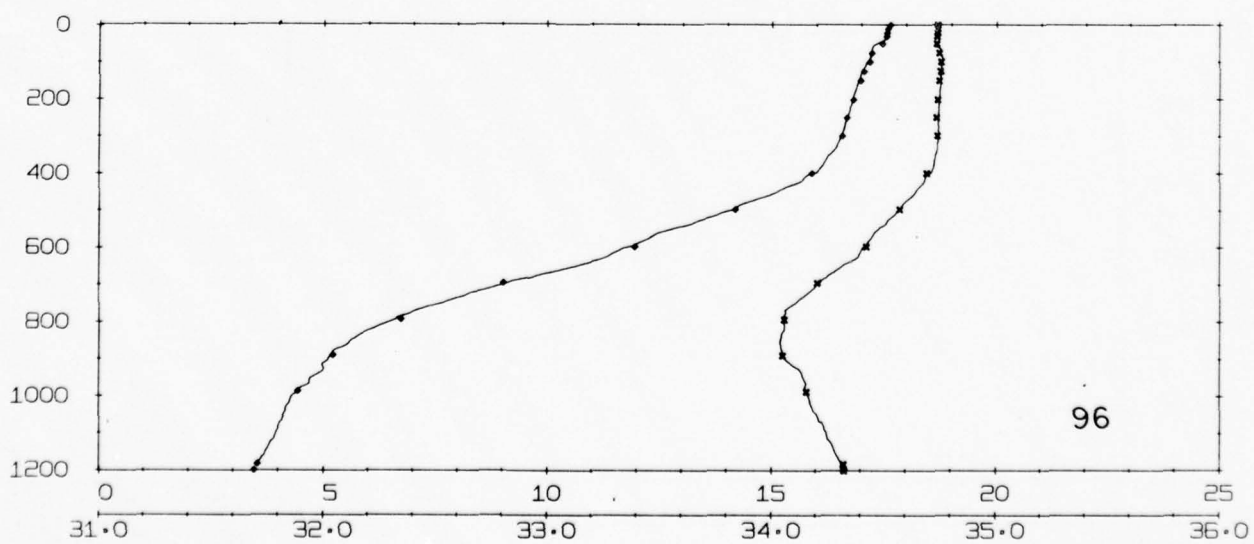
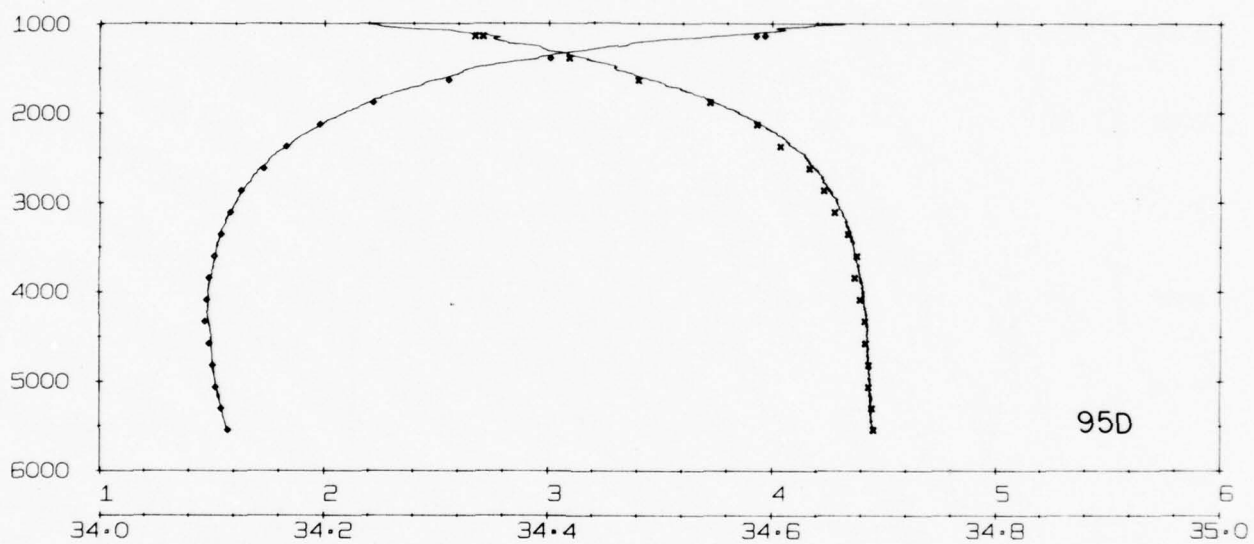
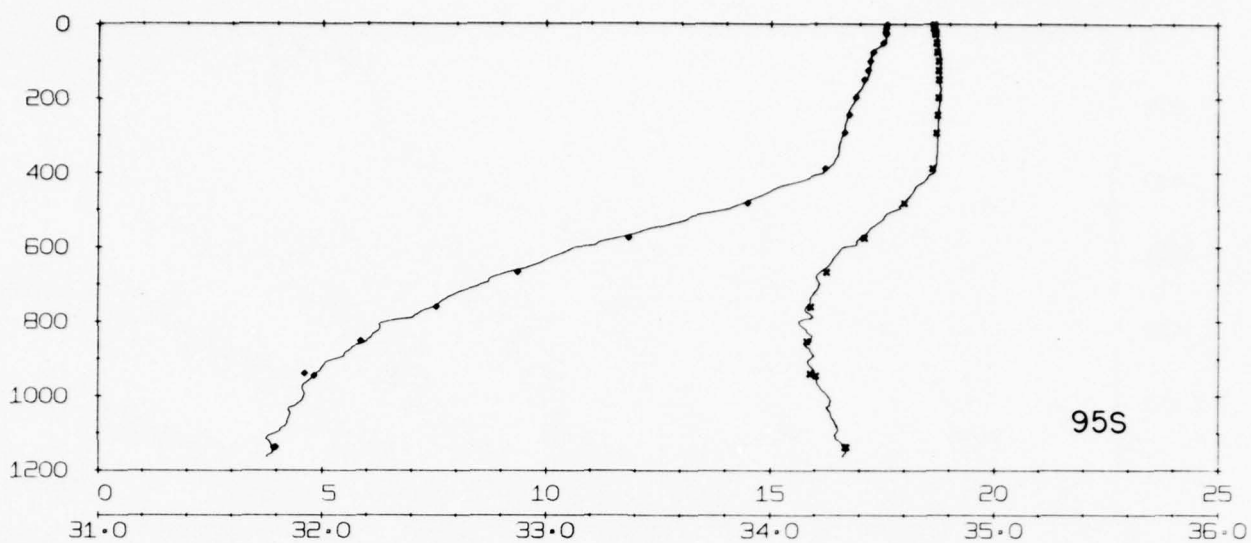
INDOPAC LEG I



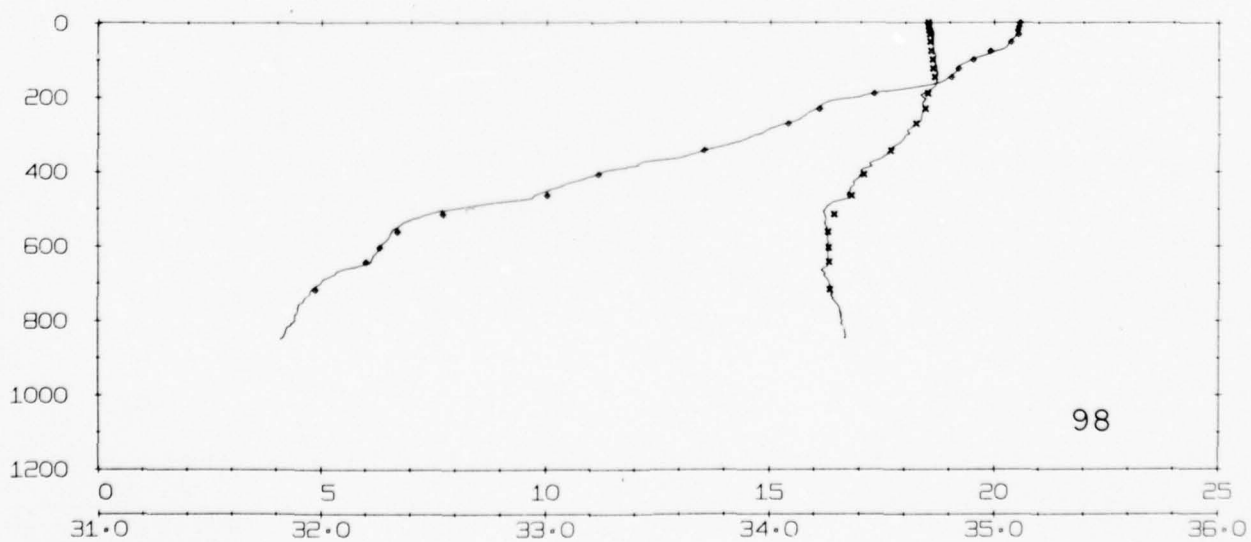
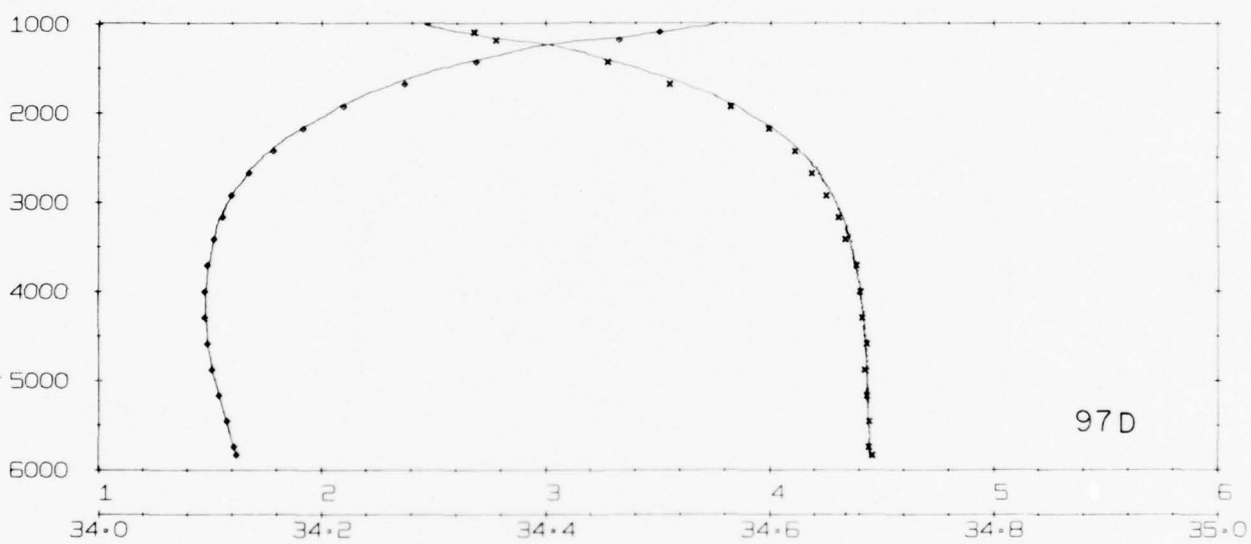
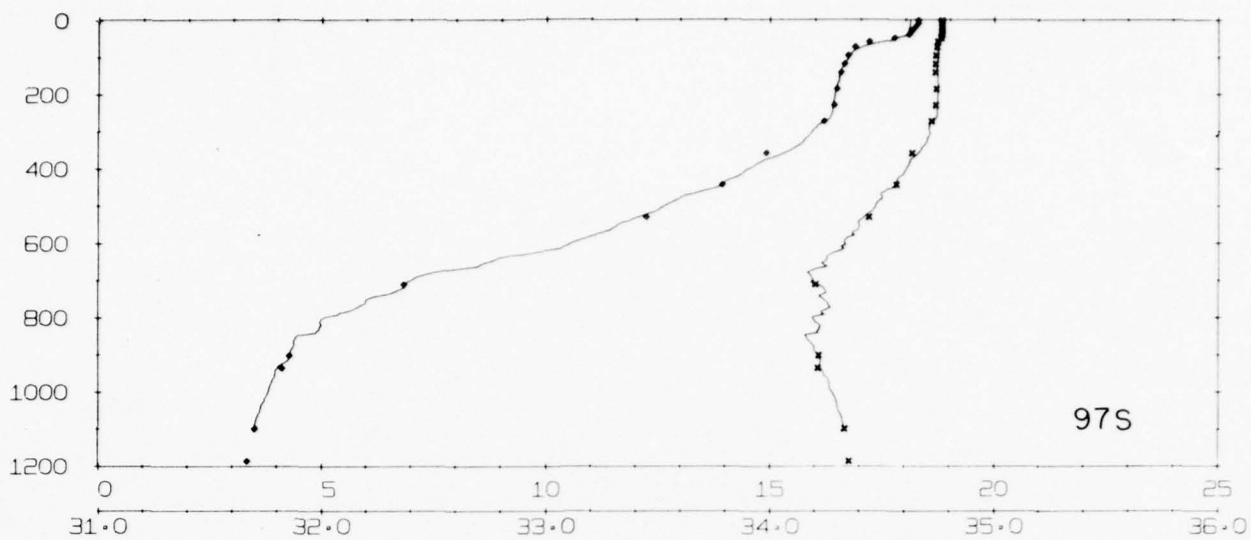
INDOPAC LEG I



INDOPAC LEG I



INDOPAC LEG I



INDOPAC Leg I ALKALINITY, TOTAL CARBON DIOXIDE AND CALCIUM

Depth meters	Alkalinity μev/kg	Total CO ₂ μmol/kg	Calcium mmol/kg
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Station 1

March 25, 1976 2308 0246 GMT
35° 03.3'N 121° 56.2'W

4	2228	2029	9.778
20	2226	2019	9.765
52	2225	2066	9.808
78	2234	2130	9.847
103	2237	2160	9.878
154	2252	2179	9.923
254			9.988
405	2299	2293	10.020
547A	2320	2331	10.052
602			10.049
800	2347	2358	10.073
911A	2355	2362	10.092
1276A	2386	2384	10.144
1643A	2401	2391	10.160
2011A	2418	2385	10.169
2384A	2427	2383	10.179

Station 5

March 27, 1976 1700 1947 GMT
35° 00.3'N 126° 02.1'W

1	2214	1980	9.70
22	2215	1988	9.67
50	2215	1982	9.71
99	2201	2011	9.63
148	2219	2071	9.77
246	2255	2151	9.91
391	2272	2269	9.98
583	2326	2330	10.02
776	2349	2349	10.08
968	2368	2372	10.09
1060A			10.10
1445A	2387	2375	10.15

Depth meters	Alkalinity μev/kg	Total CO ₂ μmol/kg	Calcium mmol/kg
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Station 3

March 26, 1976 2150 0245 GMT
35° 00.1'N 124° 00.0'W

2	2218	2025	
22	2215	2013	
42	2226	2018	
61	2220	2021	
102	2229	2088	
253	2261	2199	
402	2295	2292	
405A	2294	2280	
603	2323	2349	
797A	2351	2370	
802	2354	2364	
1191A	2388	2378	
1596B	2400	2371	
1990B	2419	2386	
2384B	2426	2375	
2776B	2420	2355	
3169B	2430	2364	
3368B	2429	2365	

Station 7

March 28, 1976 1034 1458 GMT
34° 59.0'N 128° 03.0'W

3	2205	1987	
20	2205	1985	
51	2212	1991	
77	2219	2064	
101	2231	2102	
151	2250	2174	
248	2266	2203	
402	2295	2288	
601A	2328	2338	
791A	2354	2356	
944B	2375	2367	
1243B	2391	2376	
1541B	2405	2416	
2035B	2428	2381	
2529B	2433	2367	
3025B	2435	2386	
3518B	2427	2361	
4010B	2432	2348	
4500B	2429	2345	
4694B	2429	2346	

INDOPAC Leg I ALKALINITY, TOTAL CARBON DIOXIDE AND CALCIUM

Depth meters	Alkalinity μev/kg	Total CO ₂ μmol/kg	Calcium mmol/kg
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Station 9

March 29, 1976 0345 0712 GMT
34° 59.9'N 130° 01.9'W

5	2210	1977	9.727
15	2222	1995	9.724
32	2223	1980	9.728
77	2223	2002	9.730
126	2207	1986	9.705
202	2232	2104	9.838
302	2260	2166	9.853
502	2291	2292	9.957
689A	2328	2355	10.026
701	2326	2333	10.044
900	2353	2351	10.091
1187A	2382	2384	10.121
1889A	2416	2396	10.147
2188A	2422	2384	
2887A	2423	2386	10.193
3184A	2430	2365	
3873A	2427	2345	10.180
4169A	2426	2341	10.186
4412A	2427	2346	10.199
4659A			

Depth meters	Alkalinity μev/kg	Total CO ₂ μmol/kg	Calcium mmol/kg
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Station 11

March 29, 1976 2155 0035 GMT
35° 01.0'N 132° 02.5'W

31	2222	1977	
77	2243	1980	
102	2228	2005	
153	2223	2075	
253	2247	2147	
401	2277	2245	
598	2299	2322	
794	2340	2343	
990	2370	2368	
1933A	2419	2388	
2429A	2421	2370	
2924A	2425	2356	
3419A	2423	2352	
3914A	2427	2346	
4411A	2428	2355	
4804A	2420	2329	
4904A	2424	2344	

Station 13

March 30, 1976 1312 1616 GMT
34° 59.3'N 134° 01.7'W

0	2242	1996	9.826
20	2239	1994	9.821
50	2238	1991	9.815
90	2235	1996	9.823
111	2233	1988	9.832
151	2234	1999	9.834
250	2241	2112	9.902
399	2270	2224	9.955
598	2313	2343	10.016
795			10.084
839A	2352	2359	
1037A	2369	2373	
1536A	2400	2378	
2032A	2420	2378	
2529A	2434	2397	
3025A	2426	2360	
3519A	2427	2350	
4015A	2418	2345	
4511A	2426	2341	
5006A	2424	2333	
5106A	2423	2336	

Station 15

March 31, 1976 0845 GMT
35° 00.4'N 136° 02.8'W

1	2247	1988	
22	2245	1990	
50	2234	1990	
90	2237	1986	
110	2252	2011	
246	2255	2098	
392	2275	2208	
588	2308	2316	
782	2347	2353	

INDOPAC Leg I ALKALINITY, TOTAL CARBON DIOXIDE AND CALCIUM

Depth meters	Alkalinity μev/kg	Total CO ₂ μmol/kg	Calcium mmol/kg
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Station 17

March 31, 1976 2230 0145 GMT
35° 00.6'N 137° 59.0'W

1	2265	1988	9.876
31	2251	2000	9.909
50	2250	1986	9.894
101	2258	1989	9.948
122	2252	2007	9.958
201	2240	2062	9.881
301	2281	2122	9.930
499	2284	2250	9.943
798	2345	2348	10.065
1124A	2384	2393	10.088
1200	2390	2383	10.111
1618A	2404	2388	10.136
2110A	2424	2382	10.164
2601A	2414	2371	
3091A	2425	2361	10.182
3583A	2426	2354	
4080A	2424	2345	10.182
4579A	2427	2341	
4982A	2426	2349	10.183
5083A	2423	2339	10.190
5083A	2428	2338	

Depth meters	Alkalinity μev/kg	Total CO ₂ μmol/kg	Calcium mmol/kg
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Station 19

April 1, 1976 1803 GMT
34° 58.7'N 140° 00.5'W

0	2242	1984	
20	2242	1994	
51	2241	1997	
101	2236	2007	
152	2227	1999	
251	2250	2093	
400	2265	2159	
597	2325	2290	
794	2338	2354	
989	2359	2377	
989	2357	2388	

Station 21

April 2, 1976 0635 GMT
34° 58.9'N 142° 00.1'W

1	2243	1976	9.891
10	2247	1980	9.895
31	2246	1981	9.887
77	2253	2002	9.910
101	2243	1994	9.911
122	2254	1992	9.914
152	2236	2026	9.836
251	2263	2086	9.928
300	2258	2108	9.940
495	2278	2218	9.908
592	2297	2278	9.927
786	2343	2343	10.020
892	2360	2375	10.045
981	2374	2360	10.071
1184	2387	2412	10.106

Station 23

April 2, 1976 1857 GMT
35° 00.4'N 144° 00.8'W

0	2248	1972	
31	2248	1969	
126	2241	1991	
201	2247	2056	
300	2253	2094	
694	2318	2337	
1194	2382	2392	

INDOPAC Leg I ALKALINITY, TOTAL CARBON DIOXIDE AND CALCIUM

Depth meters	Alkalinity μev/kg	Total CO ₂ μmol/kg	Calcium mmol/kg
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Station 25

April 3, 1976 0727 GMT
34° 59.6'N 146° 00.5'W

0	2254	1968	9.959
20	2254	1987	9.963
50	2254	1986	9.978
100	2254	1976	9.981
151	2235	2012	9.897
175	2236	2000	9.923
200	2247	2037	9.936
298	2259	2087	9.965
496	2280	2192	9.931
594	2288	2214	9.937
791	2329	2335	10.003
1186	2392	2346	10.093

Depth meters	Alkalinity μev/kg	Total CO ₂ μmol/kg	Calcium mmol/kg
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Station 27

April 3, 1976 1935 GMT
34° 58.8'N 148° 00.1'W

0	2254	1966
10	2254	1965
40	2254	1975
75	2253	1994
110	2255	2016
249	2260	2069
398	2270	2120
596	2295	2214
1184	2378	2384

Station 29

April 4, 1976 0725 GMT
34° 59.6'N 149° 59.5'W

0	2254	1972	9.986
31	2254	1969	9.996
76	2254	1985	9.902
125	2254	2010	9.895
175	2249	2042	9.936
249	2256	2078	9.982
349	2270	2125	9.961
398	2270	2117	9.947
497	2270	2174	9.929
595	2299	2248	9.940
692	2312	2298	9.970
791	2336	2336	10.004
889	2345	2349	10.030
987	2358	2366	10.055
1182	2392	2394	10.098

Station 31

April 4, 1976 2042 GMT
35° 00.4'N 152° 01.8'W

1	2258	1980
20	2251	1978
49	2254	1968
97	2253	1975
146	2239	2009
242	2248	2089
387	2266	2131
579	2287	2267
770	2335	2357
960	2360	2372
960	2371	2393

INDOPAC Leg I ALKALINITY, TOTAL CARBON DIOXIDE AND CALCIUM

Depth meters	Alkalinity μev/kg	Total CO ₂ μmol/kg	Calcium mmol/kg
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Station 33

April 5, 1976 0910 GMT

34° 59.9'N 153° 59.9'W

2	2243	1966	9.937
32	2244	1968	9.926
75	2240	1980	9.927
115	2252	2017	9.943
135	2245	2051	9.940
174	2250	2046	9.954
298	2257	2102	9.972
493	2257	2156	9.925
690	2314	2302	9.975
788	2328	2334	10.002
788	2328	2352	
982	2362	2385	10.053
1174	2379	2385	10.096
1174	2380	2404	

Depth meters	Alkalinity μev/kg	Total CO ₂ μmol/kg	Calcium mmol/kg
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Station 35

April 6, 1976 0016 GMT

34° 59.7'N 156° 00.5'W

2	2241	1975
32	2241	1970
76	2241	1970
117	2240	2027
137	2247	2047
177	2277	2050
300	2262	2088
495	2274	2189
693	2310	2293
993	2358	2381
993	2359	2376

Station 37

April 6, 1976 1359 GMT

34° 59.5'N 158° 04.1'W

0			9.965
29			9.958
75	2252	1993	9.964
115	2252	2001	9.973
136	2258	2029	9.997
175	2259	2046	9.969
299	2261	2075	9.959
593	2300	2235	9.925
690	2308	2298	9.958
787			10.001
985	2352	2379	10.021
985	2355	2341	
1188	2377	2379	10.089
1188	2377	2399	

Station 39

April 7, 1976 0440 GMT

35° 00.6'N 160° 00.7'W

1	2253	1989
11	2257	1973
77	2257	2009
117	2260	2011
136	2261	2059
176	2259	2048
299	2266	2082
496	2275	2143
692	2307	2280
985	2359	2376
1183	2379	2392
1183	2378	2379
1183	2376	2386

INDOPAC Leg I ALKALINITY, TOTAL CARBON DIOXIDE AND CALCIUM

Depth meters	Alkalinity μev/kg	Total CO ₂ μmol/kg	Calcium mmol/kg
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Station 41

April 7, 1976 1708 GMT
35° 01.4'N 161° 59.9'W

0	2245	1987	9.929
31			9.943
75	2246	1997	9.901
125	2246	2014	9.928
174	2265	2051	9.963
249	2255	2073	9.925
298	2261	2080	9.945
397	2264	2123	9.915
494	2263	2164	9.918
593	2292	2231	9.911
690	2310	2307	9.958
788	2330	2323	9.992
983	2361	2393	10.054
1180	2377	2390	10.091
1481	2395	2405	10.105

Depth meters	Alkalinity μev/kg	Total CO ₂ μmol/kg	Calcium mmol/kg
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Station 43

April 8, 1976 0528 0936 GMT
35° 01.2'N 163° 59.2'W

0	2254	1994	
20	2249	1990	
50	2253	2001	
100	2249	2005	
151	2262	2038	
250	2266	2052	
400	2264	2110	
595	2294	2232	
792	2318	2300	
1127A	2374	2387	10.076
1185	2370	2406	
1185	2389	2391	
1422A	2387	2418	10.110
1489	2395	2391	
1915A	2414	2386	10.155
2505A	2432	2367	10.164
3097A	2423	2356	10.189
3687A	2426	2353	10.183
4278A	2419	2340	10.187
4869A	2411	2345	10.186
5461A	2413	2318	10.186
5560A	2417	2334	10.180

Station 45

April 9, 1976 0031 0433 GMT
34° 58.0'N 166° 00.0'W

0			9.947
36	2256	1970	9.959
60	2271	1962	9.964
100	2263	2011	9.954
150	2260	1971	9.958
200	2284	2069	9.969
299	2271	2075	9.962
496	2270	2160	9.921
692	2309	2284	9.936
752A	2319	2306	9.947
986	2355	2364	10.040
1229A	2383	2417	
1707A	2402	2412	10.127
2189A	2417	2399	10.167
2671A	2420	2374	
3153A	2423	2361	10.174
3637A	2413	2345	
4118A	2427	2340	10.188
4600A	2420	2329	
5081A	2419	2334	10.194
5081A	2418	2334	
5465A	2412	2341	
5556A	2410	2343	

Station 47

April 9, 1976 1725 2057 GMT
35° 02.1'N 168° 00.1'W

16	2269	1980	
42	2268	1987	
77	2257	1998	
127	2256	2016	
202	2264	2062	
302	2263	2082	
502	2265	2176	
700	2305	2283	
774A	2313	2313	
997	2370	2386	
1197	2382	2392	
1275A	2398	2407	
1776A	2417	2387	
2279A	2417	2396	
2780A	2430	2357	
3279A	2428	2359	
3777A	2425	2347	
4272A	2417	2342	
4767A	2421	2331	
5257A	2418	2320	
5647A	2417	2327	
5744A	2415	2323	
5744A	2415	2329	

INDOPAC Leg I ALKALINITY, TOTAL CARBON DIOXIDE AND CALCIUM

Depth meters	Alkalinity μev/kg	Total CO ₂ μmol/kg	Calcium mmol/kg
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Station 49
April 10, 1976 1019 1334 GMT
35° 00.3'N 169° 59.5'W

0			10.041
20	2263	1986	10.051
51	2264	1985	10.037
76	2259	1998	10.023
100	2250	2009	10.023
152	2259	2022	10.006
251	2264	2069	10.006
401	2266	2096	9.984
599	2283	2216	9.951
844A	2342	2317	10.017
998	2365	2380	10.064
1344A	2391	2398	
1843A	2415	2403	10.150
2342A	2420	2376	
2842A	2421	2367	10.191
3341A	2403	2358	
3838A	2407	2354	
4333A	2420	2337	10.182
4826A	2420	2335	
5318A	2418	2329	10.196
5707A	2414	2308	
5805A	2414	2324	10.185

Station 53
April 11, 1976 2110 0033 GMT
35° 00.2'N 174° 00.4'W

3			10.024
21	2268	2009	10.025
47	2268	1985	10.022
69	2267	2010	10.021
91	2277	1998	10.004
134	2274	2025	10.017
220	2260	2073	
347	2279	2052	9.991
518			9.950
878	2335	2339	10.014
934			10.026
1183A	2384	2406	
1681A	2423	2396	10.129
2178A	2429	2374	10.158
2675A	2422	2373	
3172A	2425	2368	10.166
3915A	2426	2350	
4901A	2428	2338	
5292A	2428	2328	10.179
5390A	2421	2334	10.192
5390A	2421	2334	

Depth meters	Alkalinity μev/kg	Total CO ₂ μmol/kg	Calcium mmol/kg
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Station 51
April 11, 1976 0251 0712 GMT
34° 56.5'N 172° 01.8'W

20	2255	1996	
50	2264	2000	
74	2269	2004	
99	2265	2008	
150	2258	2022	
248	2262	2041	
397	2275	2096	
596	2287	2199	
744A	2311	2306	
989	2357	2363	
1244A	2383	2394	
1743A	2408	2403	
2243A	2423	2389	
2743A	2423	2362	
3241A	2422	2353	
3739A	2422	2347	
4482A	2422	2346	
4977A	2415	2329	
5467A	2417	2327	
5857A	2422	2322	
5906A	2417	2330	
5955A	2417	2351	
5955A	2417	2346	

Station 55
April 12, 1976 1325 1521 GMT
34° 58.5'N 176° 01.3'W

21	2261	1986	
50	2266	2005	
75	2257	1998	
98	2262	2010	
148	2264	2034	
244	2267	2056	
391	2257	2081	
584	2287	2205	
974	2351	2343	
976A	2352	2355	
1382A	2390	2394	
1784A	2402	2402	
2175A	2416	2378	
2270A	2413	2378	
2270A	2414	2372	

INDOPAC Leg I ALKALINITY, TOTAL CARBON DIOXIDE AND CALCIUM

Depth meters	Alkalinity μev/kg	Total CO ₂ μmol/kg	Calcium mmol/kg
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Station 57

April 13, 1976 0436 0736 GMT
35° 00.6'N 178° 01.1'W

1			10.043
22	2261	2008	10.043
51	2274	2012	10.045
76	2272	2018	10.050
100	2278	2007	10.043
150	2272	2010	10.035
249			10.012
399			9.973
598	2290	2206	9.940
995	2366	2316	10.044
1095A	2372	2383	10.049
1193	2382	2384	
1492A	2404	2401	
1888A	2408	2398	
2286A	2423	2358	10.168
2681A	2421	2357	
3075A	2425	2356	10.186
3371A	2425	2336	10.174
3468A	2426	2341	10.182
3468A	2423	2335	
3500A			

Depth meters	Alkalinity μev/kg	Total CO ₂ μmol/kg	Calcium mmol/kg
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Station 59

April 13, 1976 2001 2224 GMT
34° 58.8'N 179° 59.5'E

22	2268	1996
40	2266	1983
60	2275	2009
96	2268	2023
191	2269	2073
285	2273	2081
474	2272	2140
663	2303	2259
951	2358	2354
1147	2380	2384
1367A	2396	2399
1969A	2412	2391
2569A	2418	2356
3161A	2430	2361
3554A	2423	2365
3651A	2430	2346
3651A	2423	2342

Station 61

April 14, 1976 1633 2112 GMT
34° 58.7'N 177° 58.1'E

2			9.992
22	2263	1988	9.999
50	2266	1993	10.004
75	2265	2009	10.009
98	2268	2035	10.036
146	2271	2039	10.025
241	2274	2069	10.001
384	2282	2116	9.961
572	2296	2231	9.937
952	2363	2349	10.040
1146	2382	2382	
1172A	2382	2375	10.093
1569A	2398	2412	
1984B	2419	2386	10.159
2387B	2424	2372	
2787B	2424	2360	10.177
3184B	2420	2326	10.187
3574B	2414	2358	
3623B	2424	2339	10.177

Station 63

April 15, 1976 1041 1423 GMT
34° 59.2'N 175° 58.1'E

22	2272	1992
51	2284	1996
76	2277	2024
101	2278	2026
151	2276	2015
251	2275	2042
400	2273	2081
599	2293	2181
992	2355	2330
1135A	2384	2368
1191	2380	2370
1887A	2413	2374
2286A	2422	2374
2684A	2418	2351
3081A	2424	2345
3479A	2426	2357
3874A	2424	2337
4367A	2422	2327
4760A	2425	2358
4848A	2422	2330
4848A	2427	2337

INDOPAC Leg I ALKALINITY, TOTAL CARBON DIOXIDE AND CALCIUM

Depth meters	Alkalinity $\mu\text{ev/kg}$	Total CO ₂ $\mu\text{mol/kg}$	Calcium mmol/kg
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Station 65

April 16, 1976 0253 0611 GMT
35° 00.1'N 173° 59.8'E

1			10.074
32	2277	2003	
61	2279	1998	
91	2276	2014	10.071
126	2267	2018	10.079
202	2282	2039	10.050
301	2265	2051	10.026
497	2283	2127	9.986
695	2317	2242	9.962
943A	2350	2339	10.043
991	2359	2359	10.048
1343A	2398	2394	
1740A	2408	2386	10.126
1944A	2414	2384	
2137A	2426	2397	10.169
2336A	2425	2374	10.185
2732A	2430	2357	10.174
3126A	2423	2358	10.182
3522A	2429	2372	
3913A	2425	2351	
4154A	2418	2355	10.190
4154A	2416	2348	

Station 69

April 17, 1976 1620 2014 GMT
34° 59.1'N 170° 01.7'E

0			10.073
30	2277	1998	
60	2281	1993	
90	2283	2018	
125	2281	2001	10.093
197	2280	2026	10.091
294	2279	2038	10.068
487	2283	2113	9.995
674	2305	2247	9.939
971	2377	2373	
1144A	2369	2370	10.054
1174	2381	2342	10.081
1394A	2389	2392	
1893A	2417	2382	10.138
2391A	2423	2375	
2889A	2427	2369	
3137A	2423	2353	10.186
3630A	2424	2341	
4122A	2426	2348	10.184
4614A	2424	2329	10.186
5099A	2419	2336	
5336A	2410	2319	10.183
5336A	2412	2324	

Depth meters	Alkalinity $\mu\text{ev/kg}$	Total CO ₂ $\mu\text{mol/kg}$	Calcium mmol/kg
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Station 67

April 17, 1976 0115 0227 GMT
34° 59.7'N 172° 01.3'E

23	2279	2010	
51	2277	1979	
101	2280	2009	
152	2282	2019	
202A	2283	2007	
250A	2280	2042	
252	2280	2035	
298A	2276	2050	
347A	2269	2052	
416A	2272	2038	
512A	2281	2101	

Station 71

April 18, 1976 1210 1541 GMT
34° 59.5'N 167° 58.7'E

32	2282	1998	
77	2278	1991	
127	2282	1996	
177	2277	1997	
252	2280	2010	
403	2283	2055	
602	2275	2100	
801	2301	2218	
998	2342	2313	
1098A	2345	2341	
1201	2370	2353	
1601A	2405	2385	
2103A	2419	2385	
2606A	2424	2375	
3108A	2417	2351	
3607A	2429	2341	
4153A	2416	2327	
4696A	2425	2336	
5183A	2419	2315	
5426A	2413	2316	
5426A	2414	2328	

INDOPAC Leg I ALKALINITY, TOTAL CARBON DIOXIDE AND CALCIUM

Depth meters	Alkalinity μev/kg	Total CO ₂ μmol/kg	Calcium mmol/kg
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Station 73

April 19, 1976 0513 0925 GMT
35° 01.3'N 166° 00.2'E

1			10.066
22	2276	2003	
52	2277	1996	10.108
77	2270	1987	10.088
101	2280	1998	10.097
152	2279	1992	10.097
251	2280	2011	10.102
399			10.025
594	2270	2155	9.971
980	2335	2344	10.011
1172	2366	2354	
1173A	2366	2372	10.084
1570A			10.132
1965A	2415	2391	10.149
2362A	2422	2377	10.167
2957A	2424	2373	
3548A			10.182
4138A	2423	2336	
4724A	2419	2353	10.185
5306A	2410	2300	
5693A	2413	2312	10.192
5693A	2413	2316	

Depth meters	Alkalinity μev/kg	Total CO ₂ μmol/kg	Calcium mmol/kg
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Station 75

April 20, 1976 0020 0526 GMT
35° 03.3'N 164° 05.7'E

31	2280	2001
60	2281	2039
90	2281	2046
124	2281	2039
198	2281	2066
295	2274	2083
490	2287	2214
683	2329	2295
971	2368	2344
1740A	2409	2392
2430A	2419	2361
2889A	2423	2348
3348A	2425	2350
3807A	2418	2359
4268A	2416	2346
4730A	2422	2325
5195A	2410	2319
5664A	2408	2313
5901A	2418	2304
5901A	2408	2291

Station 77

April 20, 1976 2040 0103 GMT
34° 59.8'N 162° 03.4'E

1			10.05
11	2284	2022	
32	2281	2024	10.06
71	2280	2026	10.04
100	2277	2051	10.03
153	2276	2080	10.02
300	2284	2130	9.99
499	2298	2250	9.94
698	2368	2312	10.00
991	2371	2379	10.05
1187	2393	2384	
1380A	2402	2397	
1780A	2412	2392	10.15
2178A	2421	2384	10.16
2575A	2423	2358	
2972A	2417	2373	10.18
3169A	2424	2350	
3612A	2423	2333	
4003A	2421	2338	10.18
4391A	2420	2352	
4583A	2424	2332	10.19
4965A	2421	2344	
5013A	2422	2330	10.18
5013A	2419	2331	

Station 79

April 21, 1976 1602 2253 GMT
35° 01.2'N 160° 01.8'E

19	2287	2010
50	2283	2014
75	2279	2011
100	2287	2032
151	2281	2051
248	2280	2049
393	2284	2164
1031A	2377	2350
1157	2386	2376
1432A	2399	2405
1832A	2414	2394
2228A	2420	2377
2624A	2421	2352
3019A	2430	2379
3408A	2426	2341
3799A	2424	2341
4185A	2418	2327
4378A	2420	2329
4474A	2419	2332
4474A	2421	2332

INDOPAC Leg I ALKALINITY, TOTAL CARBON DIOXIDE AND CALCIUM

Depth meters	Alkalinity μev/kg	Total CO ₂ μmol/kg	Calcium mmol/kg
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Station 81

April 22, 1976 1312 1637 GMT
34° 59.7'N 157° 56.7'E

0			10.102
20	2285	1999	
49	2282	1999	10.112
75	2282	1994	10.104
99	2281	2002	10.104
199	2278	1992	10.099
219	2282	2008	10.074
299	2281	2045	10.092
496	2278	2091	9.994
668	2300	2221	
693	2300	2233	9.959
988	2349	2336	10.022
1165A	2371	2368	10.060
1185	2371	2395	10.059
1661A	2410	2398	10.123
2155A	2418	2389	
2645A	2422	2383	
3135A	2423	2358	
3624A	2424	2339	10.182
4109A	2420	2340	
4303A	2421	2334	10.187
4351A	2421	2331	
4351A	2421	2328	

Station 85

April 23, 1976 1943 2341 GMT
34° 59.0'N 153° 58.3'E

1			10.057
11	2290	2023	
31	2287	2031	10.077
49	2288	2038	10.063
99	2277	2065	10.027
149	2275	2091	10.001
247	2283	2132	9.969
395	2306	2231	9.953
592	2344	2320	10.006
984	2385	2378	
1165A	2395	2410	10.113
1178	2401	2388	10.108
1573A	2405	2390	
1978A	2426	2382	10.159
2381A	2426	2371	
2982A	2425	2345	10.187
3579A	2424	2325	
4174A	2426	2345	10.182
4765A	2416	2343	
5355A	2417	2461	10.174
5744A	2421	2323	10.176
5744A	2417	2323	

Depth meters	Alkalinity μev/kg	Total CO ₂ μmol/kg	Calcium mmol/kg
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Station 83

April 23, 1976 0449 GMT
35° 03.3'N 155° 55.5'E

1410	2406	2388
1910	2419	2384
2408	2419	2356
2906	2434	2358
3403	2423	2346
3896	2421	2349
4389	2423	2357
4879	2420	2324
5316	2416	2332
5365	2417	2325
5365	2416	2322

Station 87

April 24, 1976 1147 1550 GMT
35° 01.8'N 151° 56.8'E

22	2286	1998
42	2290	2009
61	2287	2017
101	2284	2005
200	2293	2023
298	2285	2025
492	2281	2076
682	2328	2218
960	2344	2334
1141	2375	2356
1417A	2393	2399
1910A	2413	2397
2406A	2422	2372
2902A	2422	2359
3397A	2417	2358
3890A	2416	2356
4384A	2417	2343
4875A	2419	2328
5362A	2418	2334
5836A	2420	2315
5836A	2418	2322

INDOPAC Leg I ALKALINITY, TOTAL CARBON DIOXIDE AND CALCIUM

Depth meters	Alkalinity μev/kg	Total CO2 μmol/kg	Calcium mmol/kg
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Station 89

April 25, 1976 0345 0815 GMT
34° 59.3'N 149° 58.7'E

1			10.08
22	2293	2010	
51	2291	1995	10.08
76	2285	2029	10.07
102			10.05
151	2280	2056	10.03
251	2302	2089	9.96
399	2291	2204	9.93
596	2339	2278	10.01
985	2371	2388	10.08
1224A	2373	2357	10.10
1613A	2408	2399	
2003A	2420	2379	10.14
2583A	2422	2348	
3163A	2428	2355	10.20
3741A	2431	2356	
4316A	2423	2314	10.17
4894A	2424	2326	10.18
5472A			10.17
5854A	2416	2322	
5854A	2416	2321	

Depth meters	Alkalinity μev/kg	Total CO2 μmol/kg	Calcium mmol/kg
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Station 91

April 25, 1976 2018 0048 GMT
34° 57.0'N 147° 59.8'E

22	2320	1965	
51	2287	1980	
76	2283	1986	
101	2285	2011	
151	2287	2028	
400	2279	2110	
600	2303	2185	
992A	2365	2359	
1004	2332	2311	
1208	2383	2376	
1392A	2395	2396	
1892A	2418	2405	
2390A	2421	2366	
2988A	2419	2339	
3584A	2428	2345	
4228A	2424	2337	
4869A	2422	2323	
5456A	2410	2306	
5844A	2413	2315	

Station 93

April 26, 1976 2356 0506 GMT
34° 58.1'N 146° 00.7'E

1	2285	2021	10.05
21	2291	2016	
70	2289	2054	10.06
99	2284	2047	10.02
197	2270	2120	9.92
293	2292	2203	9.99
389	2303	2259	9.97
580	2347	2293	10.02
770	2360	2358	10.07
1162	2396	2386	10.13
1396A	2406	2387	
1896A	2413	2378	10.16
2397A	2393	2333	
2896A	2410	2317	10.19
3394A	2421	2367	
3889A	2415	2355	
4385A	2420	2303	10.19
4878A	2415	2325	
5367A			10.19
5610A			10.19
5852A	2414	2323	10.19
5852A	2412	2291	

Station 95

April 27, 1976 1851 2304 GMT
35° 00.0'N 143° 59.7'E

21	2285	1970	
50	2286	1965	
99	2285	1980	
149	2283	1982	
244	2282	1994	
388	2281	2015	
575	2278	2115	
760	2299	2198	
945	2335	2259	
1137	2358	2332	
1138A	2365	2319	
2125A	2419	2390	
2618A	2417	2373	
3108A	2421	2350	
3598A	2420	2335	
4086A	2417	2328	
4576A	2426	2327	
5543A	2415	2313	
5543A	2414	2322	

INDOPAC Leg I ALKALINITY, TOTAL CARBON DIOXIDE AND CALCIUM

Depth meters	Alkalinity $\mu\text{ev/kg}$	Total CO ₂ $\mu\text{mol/kg}$	Calcium mmol/kg
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Station 97

April 28, 1976 1243 1736 GMT

35° 02.9'N 142° 01.3'E

1			10.095
21	2283	1970	
39	2277	1962	10.108
58	2282	1968	10.100
95	2282	1988	10.109
141	2280	1983	10.111
229			10.109
358			10.098
530	2279	2097	10.033
902	2334	2310	
1099	2363	2349	10.067
1186A	2371	2355	10.082
2180A	2415	2381	11.156
2676A	2416	2364	
3170A	2420	2353	10.187
4296A	2410	2338	10.179
5454A	2410	2322	10.184
5834A	2410	2320	10.179

INDOPAC Leg I CHLOROPHYLL-A AND PHAEOPHYTIN

Date 1976	Local Time	Depth meters	Chlorophyll-a mg/m ³	Phaeophytin mg/m ³
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March 25 1846		4	0.71	0.20
(+8)		10	0.54	0.14
		20	0.65	0.19
Station 1		31	0.55	0.15
35° 03.7'N		52	0.32	0.19
121° 56.2'W		62	0.16	0.15
		78	0.04	0.10
		93	0.06	0.10
		103	0.02	0.10
		128	0.01	0.09
		154	0.01	0.08

March 27 1147		1	0.14	0.01
(+8)		11	0.14	0.01
		22	0.13	0.02
Station 5		31	0.14	0.02
35° 01.1'N		50	0.17	0.01
125° 59.8'W		75	0.19	0.02
		99	0.17	0.06
		124	0.10	0.05
		148	0.03	0.05
		197	0.00	0.03
		246	0.00	0.02

March 28 2212		15	0.05	0.00
(+9)		22	0.06	0.00
		32	0.06	0.00
Station 9		51	0.06	0.00
35° 00.2'N		77	0.06	0.00
130° 01.0'W		101	0.14	0.01
		126	0.14	0.01
		153	0.08	0.07
		202	0.01	0.01
		252	0.00	0.01

March 30 0716		0	0.05	0.00
(+9)		10	0.06	0.00
		20	0.06	0.00
Station 13		31	0.05	0.00
34° 59.2'N		50	0.06	0.00
134° 02.3'W		76	0.08	0.00
		90	0.10	0.00
		100	0.09	0.00
		111	0.14	0.03
		125	0.18	0.08
		151	0.14	0.10

Date 1976	Local Time	Depth meters	Chlorophyll-a mg/m ³	Phaeophytin mg/m ³
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March 26 1845		2	0.46	0.06
(+8)		11	0.44	0.00
		22	0.45	0.04
Station 3		32	0.47	0.03
34° 59.2'N		42	0.50	0.05
123° 59.2'W		51	0.58	0.10
		61	0.51	0.05
		77	0.36	0.13
		102	0.11	0.14
		127	0.03	0.08
		153	0.01	0.07

March 28 0520		3	0.11	0.00
(+9)		10	0.13	0.00
		20	0.14	0.00
Station 7		31	0.12	0.00
34° 59.0'N		51	0.37	0.00
128° 03.4'W		61	0.47	0.08
		77	0.17	0.08
		92	0.05	0.05
		101	0.04	0.05
		126	0.01	0.03
		151	0.00	0.03

March 29 1535		0	0.04	0.00
(+9)		10	0.04	0.00
		31	0.05	0.00
Station 11		51	0.06	0.00
35° 01.3'N		77	0.11	0.01
132° 04.2'W		92	0.35	0.09
		102	0.20	0.26
		112	0.18	0.22
		153	0.16	0.18
		203	0.00	0.02
		253	0.00	0.01

March 30 2345		1	0.05	0.01
(+9)		12	0.04	0.01
		22	0.05	0.01
Station 15		31	0.05	0.01
35° 00.4'N		50	0.05	0.00
136° 02.8'W		75	0.05	0.00
		90	0.05	0.01
		100	0.08	0.02
		124	0.24	0.14
		149	0.17	0.20

INDOPAC Leg I CHLOROPHYLL-A AND PHAEOPHYTIN

Date 1976	Local Time	Depth meters	Chlorophyll-a mg/m ³	Phaeophytin mg/m ³	Date 1976	Local Time	Depth meters	Chlorophyll-a mg/m ³	Phaeophytin mg/m ³
March 31	1645	1	0.04	0.00	April 1	0903	0	0.04	0.01
	(+9)	11	0.04	0.01		(+9)	10	0.05	0.00
		31	0.05	0.01			20	0.04	0.00
Station 17		41	0.05	0.01	Station 19		31	0.05	0.00
35° 00.0'N		50	0.04	0.00	34° 58.7'N		51	0.02	0.00
137° 58.9'W		77	0.05	0.01	140° 00.5'W		76	0.05	0.00
		101	0.05	0.01			101	0.08	0.01
		112	0.08	0.02			126	0.11	0.02
		122	0.24	0.00			152	0.18	0.18
		152	0.13	0.10			201	0.02	0.02
		201	0.02	0.02			251	0.00	0.01
		250	0.00	0.01					
April 1	2135	1	0.04	0.01	April 2	0857	0	0.05	0.01
	(+9)	10	0.05	0.01		(+10)	10	0.04	0.00
		31	0.05	0.01			31	0.06	0.01
Station 21		51	0.04	0.01	Station 23		41	0.06	0.01
34° 58.9'N		77	0.04	0.01	35° 00.4'N		76	0.06	0.00
142° 00.1'W		101	0.05	0.01	144° 00.8'W		101	0.05	0.00
		112	0.05	0.00			116	0.05	0.00
		122	0.09	0.02			126	0.06	0.00
		152	0.17	0.16			152	0.06	0.01
		202	0.02	0.02			201	0.15	0.09
		251	0.00	0.01			251	0.15	0.12
April 2	2127	0	0.05	0.01	April 3	0935	0	0.05	0.01
	(+10)	10	0.07	0.01		(+10)	10	0.06	0.09
		20	0.06	0.01			20	0.05	0.01
Station 25		31	0.06	0.01	Station 27		65	0.06	0.01
34° 59.6'N		50	0.07	0.01	34° 58.8'N		75	0.07	0.01
146° 00.5'W		76	0.07	0.01	148° 00.1'W		95	0.07	0.02
		100	0.08	0.01			110	0.14	0.07
		125	0.21	0.13			125	0.25	0.18
		151	0.19	0.13			150	0.11	0.08
		160	0.13	0.09			199	0.02	0.01
		175	0.05	0.06			249	0.00	0.01
		190	0.03	0.02					
		200	0.02	0.01					
		249	0.00	0.01					
April 3	2125	0	0.08	0.01	April 4	1042	1	0.09	0.01
	(+10)	10	0.09	0.00		(+10)	10	0.09	0.01
		31	0.08	0.00			20	0.08	0.01
Station 29		50	0.10	0.01	Station 31		30	0.09	0.01
34° 59.6'N		76	0.13	0.02	35° 00.4'N		49	0.09	0.01
149° 59.5'W		100	0.080	0.240	152° 01.8'W		74	0.08	0.01
		125	0.19	0.09			97	0.09	0.01
		151	0.07	0.05			122	0.13	0.06
		175	0.05	0.02			146	0.11	0.11
		200	0.02	0.02			194	0.01	0.01
		249	0.00	0.00			242	0.00	0.01

INDOPAC Leg I CHLOROPHYLL-A AND PHAEOPHYTIN

Date 1976	Local Time	Depth meters	Chlorophyll-a mg/m ³	Phaeophytin mg/m ³	Date 1976	Local Time	Depth meters	Chlorophyll-a mg/m ³	Phaeophytin mg/m ³
April 4	2310	2	0.05	0.00	April 5	1416	2	0.06	0.00
	(+10)	12	0.05	0.01		(+10)	12	0.06	0.00
		32	0.06	0.01			32	0.06	0.01
Station 33		51	0.06	0.01	Station 35		51	0.06	0.00
34° 59.9'N		75	0.06	0.01	34° 59.7'N		76	0.09	0.00
153° 59.9'W		101	0.28	0.13	156° 00.5'W		102	0.37	0.13
		115	0.18	0.19			117	0.20	0.11
		126	0.12	0.13			127	0.14	0.10
		135	0.09	0.08			137	0.09	0.10
		150	0.05	0.04			151	0.06	0.04
		174	0.01	0.01			177	0.01	0.02
April 6	0259	0	0.08	0.01	April 6	0906	0	0.08	0.01
	(+11)	9	0.06	0.00		(+11)	10	0.10	0.02
		29	0.06	0.01			21	0.09	0.02
Station 37		50	0.07	0.00	Station 38		36	0.11	0.01
34° 59.5'N		75	0.06	0.01	35° 00.0'N		50	0.08	0.01
153° 04.1'W		101	0.15	0.07	159° 00.4'W		80	0.18	0.07
		115	0.10	0.06			101	0.10	0.06
		125	0.09	0.06			125	0.05	0.05
		136	0.07	0.05			135	0.04	0.05
		150	0.05	0.03			150	0.02	0.04
		175	0.03	0.01			175	0.01	0.01
April 7	0016	2	0.09	0.01	April 7	1219	1	0.18	0.01
	(+11)	11	0.16	0.02		(+11)	11	0.17	0.01
		32	0.15	0.02			30	0.26	0.04
Station 40		51	0.19	0.04	Station 42		49	0.39	0.13
35° 00.2'N		76	0.18	0.07	34° 58.8'N		74	0.12	0.06
161° 02.3'W		101	0.10	0.05	162° 59.8'W		98	0.14	0.07
		117	0.05	0.04			113	0.08	0.04
		126	0.02	0.02			122	0.05	0.04
		136	0.02	0.02			132	0.03	0.02
		151	0.01	0.01			147	0.01	0.02
		176	0.00	0.00			170	0.01	0.01
April 8	0630	0	0.12	0.01	April 8	1733	0	0.16	0.03
	(+11)	9	0.12	0.00		(+11)	13	0.28	0.06
		30	0.21	0.03			36	0.30	0.04
Station 44		49	0.39	0.04	Station 45		50	0.30	0.04
34° 59.6'N		75	0.24	0.05	34° 56.0'N		60	0.34	0.12
165° 00.3'W		99	0.05	0.02	166° 00.1'W		76	0.33	0.08
		120	0.03	0.02			100	0.14	0.04
		140	0.01	0.02			125	0.04	0.03
		161	0.01	0.01			150	0.03	0.02
		180	0.01	0.02			175	0.01	0.01
		201	0.01	0.01			200	0.01	0.02

INDOPAC Leg I CHLOROPHYLL-A AND PHAEOPHYTIN

Date 1976	Local Time	Depth meters	Chlorophyll-a mg/m ³	Phaeophytin mg/m ³
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April 9	0952 (+11)	1	0.11	0.02
		11	0.11	0.01
		16	0.16	0.00
	Station 47 35° 02.2'N 168° 00.9'W	27	0.16	0.01
		42	0.18	0.07
		61	0.64	0.20
		77	0.32	0.08
		102	0.14	0.09
		127	0.04	0.04
		153	0.02	0.02
		202	0.00	0.01

April 10	2012 (+11)	1	0.20	0.00
		10	0.19	0.01
		20	0.19	0.01
	Station 51 34° 56.6'N 172° 02.2'W	31	0.24	0.02
		50	0.17	0.01
		60	0.27	0.04
		74	0.31	0.07
		89	0.30	0.08
		99	0.28	0.06
		125	0.10	0.03
		150	0.03	0.01

April 12	0321 (+12)	1	0.26	0.03
		11	0.25	0.03
		21	0.20	0.02
	Station 55 34° 58.3'N 175° 59.4'W	31	0.25	0.05
		50	0.24	0.07
		60	0.24	0.06
		75	0.07	0.02
		89	0.04	0.01
		98	0.03	0.02
		123	0.01	0.02
		148	0.01	0.02

April 14	1024 (-12)	2	0.15	0.04
		11	0.18	0.03
		22	0.18	0.05
	Station 59 34° 59.8'N 179° 59.8'E	31	0.17	0.03
		40	0.18	0.03
		49	0.18	0.05
		60	0.15	0.06
		74	0.13	0.06
		96	0.05	0.03
		144	0.01	0.03
		191	0.00	0.02

Date 1976	Local Time	Depth meters	Chlorophyll-a mg/m ³	Phaeophytin mg/m ³
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April 10	0234 (+11)	0	0.14	0.01
		10	0.13	0.01
		20	0.11	0.02
	Station 49 35° 01.3'N 170° 00.4'W	30	0.11	0.02
		51	0.20	0.06
		60	0.25	0.06
		76	0.26	0.07
		90	0.20	0.05
		100	0.18	0.07
		126	0.04	0.02
		152	0.07	0.03

April 11	1233 (+12)	3	0.21	0.03
		12	0.21	0.03
		21	0.21	0.03
	Station 53 35° 01.1'N 174° 03.3'W	30	0.20	0.04
		47	0.25	0.08
		56	0.40	0.27
		69	0.35	0.11
		82	0.26	0.10
		91	0.12	0.08
		112	0.05	0.06
		134	0.02	0.05

April 12	1936 (+12)	1	0.34	0.07
		11	0.22	0.04
		22	0.30	0.04
	Station 57 35° 01.8'N 178° 01.3'W	32	0.32	0.06
		51	0.20	0.07
		61	0.19	0.07
		76	0.18	0.04
		90	0.20	0.06
		100	0.17	0.07
		126	0.05	0.05
		150	0.02	0.08

April 15	0912 (-12)	2	0.62	0.10
		12	0.56	0.47
		22	0.81	0.13
	Station 61 34° 59.5'N 177° 58.5'E	32	0.70	0.11
		50	0.20	0.10
		61	0.10	0.10
		75	0.07	0.08
		89	0.03	0.07
		98	0.05	0.06
		123	0.01	0.04
		146	0.00	0.03

INDOPAC Leg I CHLOROPHYLL-A AND PHAEOPHYTIN

Date 1976	Local Time	Depth meters	Chlorophyll-a mg/m ³	Phaeophytin mg/m ³
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April 16	0223	1	0.37	0.02
	(-12)	11	0.27	0.03
		22	0.36	0.02
Station 63		31	0.28	0.03
34° 58.1'N		51	0.23	0.01
175° 57.6'E		60	0.19	0.04
		76	0.14	0.04
		91	0.12	0.05
		101	0.08	0.06
		126	0.06	0.07
		151	0.05	0.06

April 17	1327	2	0.42	0.05
	(-11)	11	0.41	0.03
		23	0.48	0.03
Station 67		33	0.39	0.02
34° 59.7'N		51	0.48	0.01
172° 01.3'E		77	0.41	0.04
		101	0.15	0.07
		127	0.03	0.04
		152	0.06	0.11
		203	0.03	0.09
		252	0.02	0.06

April 19	0241	1	0.25	0.05
	(-11)	11	0.27	0.05
		32	0.21	0.07
Station 71		51	0.19	0.06
34° 59.2'N		77	0.11	0.03
168° 01.2'E		101	0.08	0.04
		127	0.06	0.04
		151	0.08	0.05
		177	0.08	0.05
		202	0.00	0.03
		252	0.00	0.01

April 20	1626	0	0.69	0.06
	(-11)	10	0.89	0.03
		31	0.56	0.15
Station 75		50	0.31	0.17
35° 04.4'N		60	0.18	0.12
164° 10.4'E		75	0.20	0.15
		90	0.07	0.11
		99	0.05	0.14
		124	0.08	0.10
		149	0.06	0.14
		198	0.01	0.07

Date 1976	Local Time	Depth meters	Chlorophyll-a mg/m ³	Phaeophytin mg/m ³
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April 16	1811	1	0.38	0.06
	(-12)	11	0.40	0.04
		32	0.37	0.05
Station 65		52	0.36	0.05
34° 59.9'N		61	0.30	0.04
174° 00.8'E		77	0.18	0.08
		91	0.12	0.08
		102	0.07	0.07
		126	0.04	0.05
		152	0.03	0.14
		202	0.01	0.08

April 18	0714	0	0.33	0.06
	(-11)	10	0.35	0.10
		30	0.26	0.07
Station 69		50	0.28	0.08
34° 58.2'N		60	0.20	0.06
170° 05.0'E		75	0.17	0.06
		90	0.13	0.04
		99	0.10	0.03
		125	0.14	0.08
		149	0.15	0.09
		197	0.01	0.03

April 19	2025	1	0.52	0.09
	(-11)	11	0.34	0.05
		22	0.44	0.08
Station 73		32	0.43	0.08
35° 02.2'N		52	0.30	0.14
166° 02.2'E		62	0.18	0.11
		77	0.11	0.05
		91	0.09	0.06
		101	0.06	0.07
		127	0.04	0.05
		152	0.04	0.05

April 21	1103	1	0.30	0.04
	(-10)	6	0.36	0.00
		11	0.43	0.08
Station 77		22	0.45	0.04
34° 58.7'N		32	0.41	0.02
162° 06.0'E		46	0.34	0.30
		71	0.15	0.11
		90	0.10	0.10
		100	0.07	0.12
		126	0.04	0.13
		153	0.01	0.10

INDOPAC Leg I CHLOROPHYLL-A AND PHAEOPHYTIN

Date 1976	Local Time	Depth meters	Chlorophyll-a mg/m ³	Phaeophytin mg/m ³	Date 1976	Local Time	Depth meters	Chlorophyll-a mg/m ³	Phaeophytin mg/m ³
April 22	0953	0	0.40	0.02	April 23	0337	0	0.48	0.19
	(-11)	10	0.88	0.08		(-11)	10	0.48	0.18
		19	0.78	0.10			20	0.45	0.16
Station 79		31	0.68	0.12	Station 81		31	0.38	0.14
35° 03.3'N		50	0.19	0.13	34° 58.8'N		49	0.32	0.13
160° 09.6'E		60	0.30	0.18	157° 55.5'E		66	0.16	0.09
		75	0.33	0.12			75	0.10	0.06
		90	0.07	0.09			90	0.06	0.05
		100	0.03	0.05			99	0.07	0.04
		125	0.02	0.04			149	0.08	0.05
		151	0.02	0.07			199	0.07	0.04
April 23	2232	2	0.48	0.10	April 24	0941	1	0.56	0.00
	(-10)	12	0.50	0.06		(-10)	6	0.52	0.00
		22	0.61	0.04			11	0.46	0.00
Station 84		31	0.53	0.06	Station 85		22	0.58	0.00
34° 59.2'N		40	0.54	0.05	34° 57.9'N		31	0.43	0.00
155° 00.6'E		49	0.32	0.15	153° 57.3'E		41	0.33	0.08
		59	0.24	0.16			49	0.31	0.13
		72	0.16	0.13			74	0.12	0.08
		95	0.07	0.09			99	0.06	0.08
		145	0.02	0.09			125	0.04	0.09
		188	0.03	0.07			149	0.03	0.06
April 25	0150	1	1.17	0.00	April 25	1815	1	0.56	0.00
	(-10)	11	1.07	0.00		(-10)	11	0.78	0.00
		22	1.00	0.07			22	0.33	0.02
Station 87		32	0.93	0.06	Station 89		32	0.48	0.04
35° 02.3'N		42	0.90	0.03	35° 00.5'N		51	0.31	0.09
151° 52.4'E		51	0.79	0.08	149° 54.5'E		61	0.38	0.15
		61	0.62	0.09			76	0.13	0.10
		77	0.45	0.10			91	0.09	0.07
		101	0.47	0.10			102	0.06	0.08
		152	0.07	0.06			127	0.05	0.10
		200	0.04	0.04			151	0.04	0.08
April 26	1048	2	0.61	0.00	April 27	1506	1	0.36	0.00
	(-10)	11	0.68	0.06		(-10)	11	0.55	0.01
		22	0.69	0.06			21	0.54	0.14
Station 91		32	0.98	0.01	Station 93		41	0.77	0.24
34° 55.8'N		51	2.02	0.00	34° 58.2'N		70	0.11	0.11
147° 59.1'E		61	1.13	0.00	146° 01.9'E		89	0.05	0.15
		76	0.39	0.02			99	0.06	0.12
		91	0.04	0.06			149	0.03	0.10
		101	0.05	0.06			197	0.02	0.06
		126	0.04	0.07			245	0.01	0.03
		151	0.02	0.05			293	0.01	0.04

INDOPAC Leg I CHLOROPHYLL-A AND PHAEOPHYTIN

Date 1976	Local Time	Depth meters	Chlorophyll-a mg/m ³	Phaeophytin mg/m ³
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April 28	0904	1	0.95	0.03
	(-10)	11	0.88	0.07
		21	0.91	0.04
	Station 95	26	0.88	0.12
	34° 57.2'N	50	0.83	0.13
	144° 01.0'E	75	0.40	0.18
		99	0.17	0.12
		124	0.10	0.07
		149	0.05	0.06
		197	0.21U	0.06
		244	0.02	0.03

Date 1976	Local Time	Depth meters	Chlorophyll-a mg/m ³	Phaeophytin mg/m ³
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April 29	0236	1	0.16	0.02
	(-9)	10	0.16	0.03
		21	0.13	0.02
	Station 97	30	0.12	0.04
	35° 03.1'N	39	0.11	0.00
	142° 01.4'E	48	0.18	0.04
		58	0.22	0.07
		72	0.10	0.07
		95	0.08	0.05
		118	0.09	0.07
		141	0.06	0.05

INDOPAC Leg I PRIMARY PRODUCTIVITY

Station	Date 1976	Secchi Depth meters	Incubation Period Local Time	Depth meters	Chlorophyll-a mg/m ³	Phaeophytin mg/m ³	Uncorrected Production Data mgC/m ³		Total Production mgC/m ³	Production/ Chlorophyll-a mgC/mgChl-a
							Light-1	Light-2	Dark	
27 34° 58.8'N 148° 00.1'W	April 5	35	1106-1755 (+10)	0	0.04	0.01	0.19	0.18	0.10	0.09
				10	0.06	0.09u	0.31	0.24	0.05	0.23
				20	0.05	0.01	0.55	0.44	0.22	0.28
				40	----	----	0.39	0.30	0.10	0.24
				65	0.06	0.01	0.21	0.23	0.17	0.05u
				95	0.07	0.02	0.20	0.14	0.04	0.13
38 35° 00.0'N 159° 00.4'W	April 6	29	1030-1800 (+11)	0	0.08	0.01	0.24	0.19	0.02	0.20
				10	0.10	0.02	1.31	0.95	0.04	1.09
				21	0.09	0.02	0.94	0.72	0.02	0.80
				36	0.11	0.01	1.84	1.86	0.04	1.81
				50	0.08	0.01	1.77	1.75	0.03	1.73
				80	0.18	0.07	1.68	1.04	0.27	1.08
47 35° 02.2'N 168° 00.9'W	April 9	22	1130-1830 (+11)	1	0.11	0.02	0.71	0.64	0.06	0.62
				11	0.11	0.01	2.66	2.28	0.07	2.40
				16	0.16	0.00	2.27	2.18	0.07	2.16
				27	0.16	0.01	2.78	2.66	0.07	2.65
				42	0.18	0.07	1.97	1.47	0.07	1.65
				61	0.64	0.20	3.12	2.10	0.05	2.55
77 34° 58.7'N 162° 06.0'E	April 21	16	1315-1910 (-11)	1	0.30	0.04	1.96	----	0.08	1.88
				6	0.36	0.00	6.12	4.07	0.06	5.03
				11	0.43	0.08	3.16	0.87u	0.04	1.97u
				22	0.45	0.04	7.11	5.04	0.14	5.94
				32	0.41	0.02	3.97	3.28	0.09	3.51
				46	0.34	0.30	1.78	1.77	0.05	1.73
85 34° 57.9'N 153° 57.3'E	April 24	14	1105-1830 (-10)	1	0.56	0.00	1.58	1.43	0.08	1.43
				6	0.52	0.00	7.29	4.81	0.09	5.97
				11	0.46	0.00	2.84	9.90	0.09	6.28
				22	0.58	0.00	9.52	11.73	0.09	10.53
				31	0.43	0.00	6.53	4.71	0.08	5.54
				41	0.33	0.08	2.59	2.94	0.04	2.72
										2.6
										11.5
										13.4
										18.2
										12.9
										8.2

INDOPAC EXPEDITION LEGS II AND III

INDOPAC Expedition Legs II and III were carried out from 5 May to 19 June 1976 to study the circulation of the waters of the Philippine Sea and along the eastern edge of the Marianas Ridge. Fifty-six hydrographic stations were occupied, with sampling to the bottom, except over the deeper portions of the trenches, for temperature, salinity, oxygen, phosphate, silicate and nitrate; STD's were lowered to the bottom (6000 m maximum). Net hauls and one deep trawl were made. XBT's were taken at hourly or bi-hourly intervals. Two free-fall hydrographic casts on stations 19 and 21 were made to the bottom of the Marianas Trench for temperature, salinity, oxygen and nutrients.

Legs II and III of INDOPAC Expedition were sponsored by the National Science Foundation.

Data are presented as plots of temperature and salinity versus depth and tabulated data.

PERSONNEL

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- (2) Leg II only
- (3) Leg III only

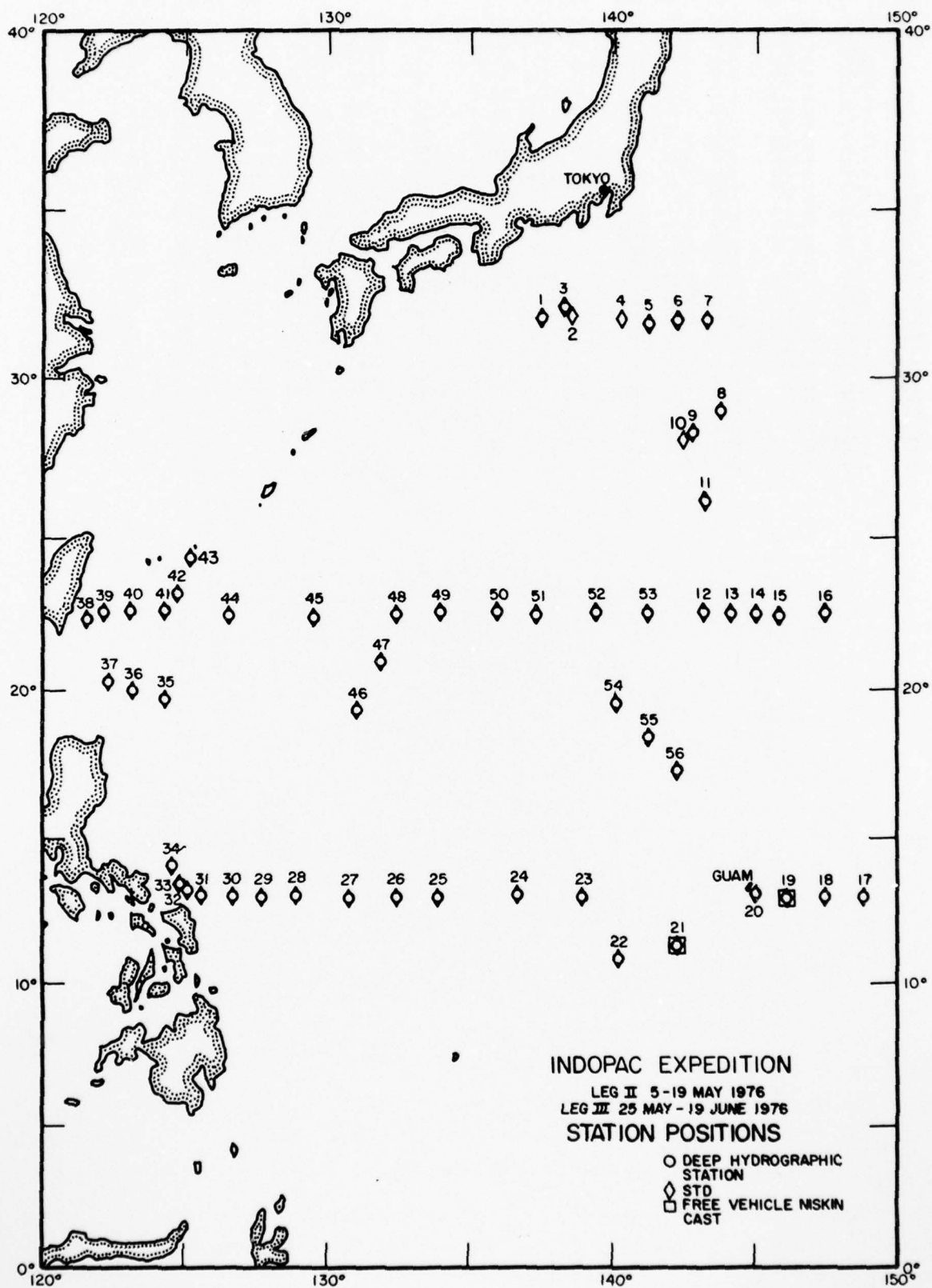


FIGURE 6

LATITUDE 31 49.4N		LONGITUDE 137 30.7E		MO/DAY/YR 5/ 6/76		MESSENGER TIME 0618 0759		BOTTOM 4087M		WIND 290		SPEED 16KT		WEATHER 0		DOMINANT WAVES 290 5 6			
Z	T	S	02	P04	S103	N02	N03	DT	Z	T	S	02	S101	DT	DC				
0	18.97	34.54	5.56	0.05	6.	0.00	0.0	325.5	0	18.97	34.54	5.56	24.697	325.5	0.000				
20	18.86	34.54	5.62	0.08	6.	0.01	1.4	322.9	10	18.92	34.54	5.59	24.711	324.2	0.033				
51	18.09	34.650	5.21	0.34	9.	0.27	4.5	251.3	20	18.66	34.54	5.62	24.725	322.9	0.065				
71	15.85	34.639	5.24	0.35	9.	0.17	4.9	244.9	30	17.98	34.57	5.49	24.966	300.0	0.096				
85	15.70	34.630	5.18	0.41	10.	0.09	5.5	244.4	50	16.18	34.65	5.22	25.452	253.7	0.152				
100	15.54	34.625	5.06	0.45	11.	0.03	6.7	241.3	75	15.81	34.64	5.23	25.531	246.2	0.215				
116	15.18	34.603	4.67	0.58	14.	0.03	8.7	235.3	100	15.54	34.63	5.06	25.562	241.3	0.276				
140	14.03	34.548	3.98	0.91	22.	0.04	13.6	215.8	125	14.80	34.58	4.40	25.713	228.9	0.336				
161	12.86	34.502	3.70	1.16	28.	0.13	18.5	196.4	150	13.46	34.53	3.82	25.951	206.3	0.391				
191	11.79	34.441	3.48	1.38	33.		19.2	181.2	200	11.31	34.41	3.45	26.280	175.0	0.489				
220	10.26	34.355	3.36	1.69	40.	0.04	22.5	161.3	250	9.31	34.34	3.01	26.569	147.6	0.572				
250	9.31	34.336	3.01	1.84	51.	0.00	25.7	147.6	300	7.94	34.29	2.74	26.747	130.7	0.644				
299	7.96	34.291	2.75	2.09	62.	0.00	29.0	131.0	400	6.21	34.26	2.23	26.965	110.0	0.770				
355	6.86	34.262	2.43	2.34	73.	0.02	32.0	118.2	500	5.09	34.29	1.86	27.121	95.2	0.878				
440	5.73	34.270	2.07	2.52	88.	0.04	35.6	103.7	600	4.51	34.33	1.64	27.241	83.8	0.973				
550	4.65	34.304	1.72	2.72	106.	0.04	38.5	89.1	700	3.81	34.38	1.56	27.332	75.2	1.059				
668	3.96	34.362	1.58	2.99	121.	0.00	40.5	77.8	800	3.44	34.42	1.62	27.401	68.7	1.137				
797	3.45	34.416	1.52	2.93	133.	0.00	41.1	68.9	1000	2.87	34.49	1.64	27.513	58.1	1.276				
945	3.04	34.454	1.54	2.91	139.		41.5	62.3	1200	2.60	34.52	1.74	27.563	53.4	1.401				
1048A	2.77	34.51	1.70		145.	0.00	41.7	55.8	1500	2.17	34.58	2.21	27.639	46.1	1.572				
1095	2.78	34.490	1.64	2.94	145.		41.6	57.4	1750	1.99	34.61	2.49	27.678	42.4	1.701				
1247A	2.48	34.55	1.84	2.79	150.	0.00	41.5	50.4	2000	1.82	34.63	2.80	27.710	39.4	1.823				
1447A	2.22	34.57	2.15	2.73	151.	0.00	40.9	46.8	2250	1.71	34.64	3.00	27.728	37.8	1.940				
1647A	2.07	34.59	2.37	2.77	152.	0.00	40.2	44.2	2500	1.61	34.66	3.23	27.749	35.6	2.053				
1846A	1.92	34.62	2.60	2.66	153.	0.00	39.5	40.8	2750	1.54	34.68	3.37	27.772	33.5	2.162				
2046A	1.80	34.63	2.86	2.65	152.	0.01	38.9	39.2	3000	1.50	34.68	3.51	27.775	33.2	2.269				
2246A	1.716	34.64	3.00	2.53	152.		38.7	37.8	3250	1.49	34.68	3.55	27.776	33.2	2.376				
2445A	1.632	34.65	3.18	2.54	150.		38.1	36.4	3500	1.50	34.69	3.63	27.781	32.6	2.485				
2646A	1.564	34.68	3.33	2.53	150.	0.00	37.6	33.7	3750	1.52	34.68	3.60	27.774	33.4	2.596				
2846A	1.521	34.68	3.41	2.52	149.	0.00	37.7	33.4	4000	1.54	34.69	3.62	27.776	33.1	2.710				
3046A	1.490	34.68	3.54	2.53	149.	0.00	37.0	33.2											
3247A	1.491	34.68	3.55	2.47	149.	0.01	37.0	33.2											
3448A	1.495	34.69	3.63	2.45	148.	0.03	36.4	32.5											
3650A	1.512	34.68	3.60	2.49	148.	0.01	36.8	33.3											
3851A	1.535	34.68	3.410	2.46	149.		36.8	33.5											
4054A	1.546	34.69	3.62	2.52	148.	0.00	36.6	32.8											

1 D						INDOPAC LEG 11						2					
LATITUDE	LONGITUDE	MO/DAY/YR	START TIME			LATITUDE	LONGITUDE	MO/DAY/YR	START TIME			LATITUDE	LONGITUDE	MO/DAY/YR	START TIME		
31 49.4N	137 30.7E	05/06/76	0651 GMT			31 54. N	138 31. E	05/06/76	1533 GMT			31 54. N	138 31. E	05/06/76	1533 GMT		
Z	T	S	SIGMA T	DT	DD	Z	T	S	SIGMA T	DT	DD	Z	T	S	SIGMA T	DT	DD
0	19.00	34.52	24.674	327.7	0.000	0	21.07	34.61	24.199	373.0	0.000	0	21.07	34.61	24.199	373.0	0.000
10	18.96	34.52	24.684	326.7	0.033	10	21.09	34.62	24.201	372.8	0.037	10	21.09	34.62	24.201	372.8	0.037
20	18.36	34.52	24.835	312.4	0.065	20	21.01	34.61	24.215	371.5	0.075	20	21.01	34.61	24.215	371.5	0.075
30	16.84	34.62	25.280	270.1	0.094	30	20.66	34.59	24.294	363.9	0.111	30	20.66	34.59	24.294	363.9	0.111
40	16.23	34.63	25.429	255.8	0.120	40	20.17	34.58	24.417	352.2	0.147	40	20.17	34.58	24.417	352.2	0.147
50	15.98	34.63	25.487	250.4	0.146	50	19.86	34.58	24.498	344.5	0.182	50	19.86	34.58	24.498	344.5	0.182
75	15.72	34.62	25.538	245.5	0.208	75	18.58	34.62	24.857	310.3	0.265	75	18.58	34.62	24.857	310.3	0.265
100	15.44	34.60	25.585	241.0	0.270	100	17.32	34.63	25.173	280.2	0.339	100	17.32	34.63	25.173	280.2	0.339
125	15.22	34.56	25.734	226.8	0.329	125	16.88	34.66	25.301	268.1	0.409	125	16.88	34.66	25.301	268.1	0.409
150	15.47	34.50	25.930	208.3	0.384	150	16.22	34.59	25.401	258.5	0.476	150	16.22	34.59	25.401	258.5	0.476
175	12.32	34.45	26.120	190.2	0.435	175	15.72	34.63	25.546	248.8	0.540	175	15.72	34.63	25.546	248.8	0.540
200	11.36	34.40	26.263	176.7	0.482	200	15.13	34.60	25.654	234.7	0.601	200	15.13	34.60	25.654	234.7	0.601
225	10.07	34.32	26.430	160.8	0.526	225	14.66	34.60	25.757	221.9	0.660	225	14.66	34.60	25.757	221.9	0.660
250	9.34	34.32	26.552	149.2	0.566	250	13.88	34.56	25.891	211.9	0.716	250	13.88	34.56	25.891	211.9	0.716
275	8.68	34.30	26.642	140.7	0.603	275	13.17	34.52	26.006	201.0	0.770	275	13.17	34.52	26.006	201.0	0.770
300	7.94	34.27	26.731	132.2	0.639	300	12.35	34.49	26.145	187.6	0.820	300	12.35	34.49	26.145	187.6	0.820
350	6.67	34.24	26.887	117.4	0.704	350	10.36	34.39	26.434	160.4	0.911	350	10.36	34.39	26.434	160.4	0.911
400	5.97	34.24	26.978	108.8	0.763	400	8.79	34.33	26.772	140.1	0.990	400	8.79	34.33	26.772	140.1	0.990
450	5.45	34.26	27.058	101.2	0.818	450	7.77	34.29	26.903	115.9	1.166	450	7.77	34.29	26.903	115.9	1.166
500	4.99	34.27	27.120	95.3	0.870	500	6.90	34.30	27.015	102.3	1.185	500	6.90	34.30	27.015	102.3	1.185
550	4.60	34.29	27.180	89.6	0.919	550	5.93	34.28	27.108	96.5	1.239	550	5.93	34.28	27.108	96.5	1.239
600	4.31	34.32	27.235	84.4	0.965	600	5.23	34.29	27.181	89.5	1.289	600	5.23	34.29	27.181	89.5	1.289
650	3.95	34.33	27.281	80.1	1.009	650	4.73	34.31	27.229	85.0	1.336	650	4.73	34.31	27.229	85.0	1.336
700	3.79	34.36	27.321	76.3	1.051	700	4.04	34.36	27.296	78.7	1.380	700	4.04	34.36	27.296	78.7	1.380
750	3.51	34.37	27.357	72.9	1.092	750	3.94	34.37	27.314	77.0	1.423	750	3.94	34.37	27.314	77.0	1.423
800	3.39	34.40	27.392	69.5	1.130	800	3.77	34.39	27.347	73.8	1.464	800	3.77	34.39	27.347	73.8	1.464
850	3.26	34.42	27.421	66.9	1.167	850	3.54	34.41	27.386	70.2	1.503	850	3.54	34.41	27.386	70.2	1.503
900	3.12	34.43	27.442	64.9	1.203	900	3.40	34.43	27.415	67.4	1.541	900	3.40	34.43	27.415	67.4	1.541
950	3.02	34.44	27.459	63.2	1.239	950	3.31	34.45	27.440	65.0	1.578	950	3.31	34.45	27.440	65.0	1.578
1000	2.91	34.46	27.485	60.6	1.273	1000	3.03	34.47	27.482	61.0	1.649	1000	3.03	34.47	27.482	61.0	1.649
1100	2.71	34.48	27.519	57.6	1.339	1100	2.83	34.49	27.516	57.8	1.716	1100	2.83	34.49	27.516	57.8	1.716
1200	2.54	34.50	27.549	54.7	1.401	1200	2.69	34.51	27.544	55.1	1.780	1200	2.69	34.51	27.544	55.1	1.780
1300	2.42	34.52	27.575	52.2	1.462	1300	2.51	34.53	27.576	52.2	1.841	1300	2.51	34.53	27.576	52.2	1.841
1400	2.30	34.54	27.601	49.7	1.520	1400	2.36	34.55	27.604	49.4	1.900	1400	2.36	34.55	27.604	49.4	1.900
1500	2.20	34.56	27.625	47.4	1.576	1500	2.277	34.567	27.625	47.5	1.956	1500	2.277	34.567	27.625	47.5	1.956
1600	2.093	34.573	27.644	45.6	1.629	1600	2.150	34.586	27.650	45.1	2.011	1600	2.150	34.586	27.650	45.1	2.011
1700	2.018	34.585	27.660	44.2	1.682	1700	2.085	34.597	27.664	43.8	2.063	1700	2.085	34.597	27.664	43.8	2.063
1800	1.948	34.599	27.677	42.6	1.733	1800	2.021	34.607	27.677	42.5	2.115	1800	2.021	34.607	27.677	42.5	2.115
1900	1.889	34.612	27.692	41.2	1.783	1900	1.946	34.620	27.694	41.0	2.165	1900	1.946	34.620	27.694	41.0	2.165
2000	1.811	34.621	27.705	39.9	1.831	2000	1.910	34.626	27.701	40.3	2.215	2000	1.910	34.626	27.701	40.3	2.215
2100	1.765	34.633	27.718	38.7	1.878	2100	1.859	34.634	27.712	39.3	2.263	2100	1.859	34.634	27.712	39.3	2.263
2200	1.726	34.637	27.724	38.1	1.925	2200	1.808	34.643	27.723	38.2	2.311	2200	1.808	34.643	27.723	38.2	2.311
2300	1.677	34.649	27.737	36.8	1.971	2300	1.759	34.650	27.732	37.3	2.358	2300	1.759	34.650	27.732	37.3	2.358
2400	1.639	34.652	27.743	36.3	2.016	2400	1.727	34.656	27.739	36.7	2.404	2400	1.727	34.656	27.739	36.7	2.404
2500	1.608	34.662	27.753	35.4	2.060	2500	1.709	34.659	27.743	36.3	2.450	2500	1.709	34.659	27.743	36.3	2.450
2600	1.579	34.666	27.758	34.9	2.104												
2700	1.560	34.668	27.761	34.6	2.148												
2800	1.534	34.673	27.767	34.0	2.191												
2900	1.517	34.678	27.772	33.5	2.234												
3000	1.495	34.681	27.776	33.1	2.277												
3100	1.488	34.685	27.780	32.8	2.319												
3200	1.487	34.687	27.782	32.6	2.362												
3300	1.486	34.690	27.784	32.4	2.405												
3400	1.488	34.694	27.787	32.1	2.448												
3500	1.495	34.694	27.787	32.2	2.490												
3600	1.505	34.695	27.787	32.2	2.534												
3700	1.514																
3800	1.523																
3900	1.533																
4000	1.544																
4066	1.551																

LATITUDE		LONGITUDE	MO/DAY/YR		MESSENGER	TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES				
32 04. N			5/ 6/76								210R 232Z		3176M		36G 11KT
Z	T	S	02	P04	S103	N02	N03	DT	Z	T	S	02	S101	DT	DD
0	19.86	34.535	5.39	0.16	3.	0.00	0.1	347.7	0	19.86	34.535	5.39	24.464	347.7	0.000
10	19.83	34.534	5.46	0.13	3.	0.00	0.3	347.1	10	19.83	34.534	5.46	24.471	347.1	0.035
31	19.80	34.534	5.39	0.12	4.	0.01	0.2	346.3	20	19.82	34.535	5.43	24.475	346.7	0.069
50	18.69	34.596	4.96	0.31	6.	0.59	2.7	314.7	30	19.80	34.535	5.39	24.479	346.4	0.104
71	17.42	34.604	5.00	0.39	7.	0.22	4.0	264.4	50	18.69	34.596	4.96	24.811	314.7	0.171
91	16.78	34.683	4.34	0.60	11.	0.06	7.7	264.1	75	17.27	34.623	4.87	25.178	279.7	0.245
121	15.73	34.606	4.62	0.64	12.	0.01	8.2	246.8	100	16.44	34.668	4.42	25.410	257.7	0.313
151	15.27	34.606	4.60	0.63	14.	0.04	8.8	237.0	125	15.66	34.606	4.62	25.539	245.4	0.377
201	13.60	34.530	3.81	1.08	24.	0.03	15.0	208.6	150	15.28	34.607	4.60	25.624	237.5	0.438
250	12.10	34.457	3.55	1.32	31.	0.01	18.3	185.7	200	13.64	34.532	3.83	25.920	209.2	0.553
300	9.98	34.362	3.12	1.73	44.	0.00	23.6	156.3	250	12.10	34.457	3.55	26.168	185.7	0.654
398	7.84	34.306	2.60	2.18	64.	0.00	29.5	128.1	300	9.98	34.362	3.12	26.478	156.3	0.743
495	5.98	34.284	2.11	2.57	85.	0.00	34.8	105.6	400	7.80	34.306	2.59	26.779	127.6	0.891
639	4.56	34.319	1.70	2.80	108.	0.00	38.6	87.1	500	5.91	34.286	2.09	27.020	104.8	1.014
722A	3.87	34.363	1.43	2.86	124.		40.7	76.8	600	4.85	34.306	1.80	27.164	91.2	1.119
866A	3.47	34.409	1.45	2.89	133.		41.3	69.6	700	4.03	34.352	1.49	27.289	79.3	1.210
1008A	3.11	34.451	1.49	2.93	141.		41.7	63.2	800	3.59	34.392	1.44	27.366	72.0	1.292
1150A	2.80	34.490	1.44	2.95	147.		41.6	57.6	1000	3.13	34.449	1.49	27.456	63.5	1.442
1292A	2.54	34.525	1.82	2.97	151.		41.3	52.8	1200	2.70	34.504	1.56	27.538	55.8	1.575
1479A	2.31	34.555	2.12	2.92	153.		40.7	48.7	1500	2.28	34.560	2.14	27.618	48.2	1.753
1665A	2.11	34.588	2.30	2.92	155.		40.3	44.6	1750	2.05	34.596	2.37	27.666	43.7	1.888
1850A	1.99	34.601	2.45	2.85	155.		39.8	42.7	2000	1.92	34.618	2.61	27.693	41.1	2.014
2033A	1.91	34.620		2.79	154.		39.5	40.7	2250	1.78	34.641	2.84	27.723	38.2	2.135
2214A	1.79	34.639	2.82	2.76	154.		39.0	38.4	2500	1.70	34.652	3.04	27.737	36.9	2.251
2395A	1.744	34.646	2.94	2.78	153.		38.6	37.6	2750	1.61	34.665	3.24	27.755	35.2	2.364
2575A	1.671	34.654	3.11	2.69	152.		38.2	36.4	3000	1.54	34.673	3.41	27.767	34.1	2.475
2751A	1.607	34.664	3.24	2.64	151.		37.9	35.2							
2927A	1.548	34.670	3.36	2.58	150.		37.5	34.3							

3 D						INDOPAC LEG II						4					
LATITUDE	LONGITUDE	MO/DAY/YR	START TIME			LATITUDE	LONGITUDE	MO/DAY/YR	START TIME			LATITUDE	LONGITUDE	MO/DAY/YR	START TIME		
32 04. N	138 21. E	05/06/76	1945 GMT			31 44.3N	140 13.1E	05/07/76	0634 GMT								
Z	T	S	SIGMA T	DT	DD	Z	T	S	SIGMA T	DT	DD	Z	T	S	SIGMA T	DT	DD
0	19.80	34.54	24.483	345.9	0.000	0	21.11	34.65	24.218	371.2	0.000	0	21.11	34.65	24.218	371.2	0.000
10	19.80	34.54	24.483	345.9	0.035	10	21.09	34.66	24.231	369.9	0.037	10	21.09	34.66	24.231	369.9	0.037
20	19.78	34.54	24.489	345.4	0.069	20	21.05	34.67	24.249	368.2	0.074	20	21.05	34.67	24.249	368.2	0.074
30	18.60	34.56	24.806	315.2	0.102	30	21.00	34.68	24.271	366.2	0.111	30	21.00	34.68	24.271	366.2	0.111
40	18.03	34.60	24.978	298.8	0.133	40	20.98	34.68	24.276	365.7	0.148	40	20.98	34.68	24.276	365.7	0.148
50	17.75	34.62	25.062	290.8	0.163	50	20.95	34.69	24.292	364.1	0.184	50	20.95	34.69	24.292	364.1	0.184
75	17.17	34.71	25.270	271.0	0.234	75	20.61	34.73	24.414	352.5	0.274	75	20.61	34.73	24.414	352.5	0.274
100	16.29	34.63	25.416	257.2	0.300	100	19.68	34.74	24.667	328.4	0.360	100	19.68	34.74	24.667	328.4	0.360
125	15.89	34.66	25.530	246.3	0.364	125	19.31	34.77	24.785	317.1	0.442	125	19.31	34.77	24.785	317.1	0.442
150	15.53	34.63	25.588	240.7	0.426	150	18.96	34.78	24.885	307.9	0.521	150	18.96	34.78	24.885	307.9	0.521
175	14.97	34.59	25.682	231.9	0.486	175	18.69	34.78	24.951	301.4	0.599	175	18.69	34.78	24.951	301.4	0.599
200	13.96	34.56	25.875	213.5	0.543	200	18.43	34.78	25.016	295.2	0.675	200	18.43	34.78	25.016	295.2	0.675
225	12.63	34.48	26.083	193.7	0.596	225	17.88	34.79	25.160	281.5	0.749	225	17.88	34.79	25.160	281.5	0.749
250	11.70	34.43	26.243	180.4	0.644	250	17.47	34.78	25.252	272.7	0.820	250	17.47	34.78	25.252	272.7	0.820
275	10.81	34.40	26.363	167.2	0.689	275	17.35	34.78	25.271	270.9	0.890	275	17.35	34.78	25.271	270.9	0.890
300	10.06	34.37	26.470	157.0	0.731	300	17.15	34.78	25.329	265.4	0.959	300	17.15	34.78	25.329	265.4	0.959
350	8.42	34.27	26.659	139.1	0.808	350	16.45	34.76	25.478	251.2	1.094	350	16.45	34.76	25.478	251.2	1.094
400	7.81	34.31	26.782	127.4	0.878	400	15.44	34.68	25.647	235.2	1.221	400	15.44	34.68	25.647	235.2	1.221
450	6.89	34.28	26.889	117.3	0.943	450	14.80	34.64	25.757	224.7	1.362	450	14.80	34.64	25.757	224.7	1.362
500	6.17	34.28	26.984	108.2	1.002	500	13.40	34.54	25.975	204.0	1.456	500	13.40	34.54	25.975	204.0	1.456
550	5.46	34.29	27.081	99.1	1.058	550	11.67	34.43	26.229	179.9	1.558	550	11.67	34.43	26.229	179.9	1.558
600	4.90	34.32	27.170	90.6	1.108	600	9.81	34.33	26.482	155.9	1.649	600	9.81	34.33	26.482	155.9	1.649
650	4.42	34.33	27.232	84.8	1.155	650	8.72	34.29	26.628	142.0	1.729	650	8.72	34.29	26.628	142.0	1.729
700	4.16	34.34	27.267	81.4	1.200	700	7.70	34.26	26.758	129.6	1.803	700	7.70	34.26	26.758	129.6	1.803
750	3.83	34.36	27.317	76.7	1.243	750	6.88	34.25	26.867	119.4	1.871	750	6.88	34.25	26.867	119.4	1.871
800	3.70	34.38	27.346	73.9	1.284	800	6.05	34.26	26.984	108.3	1.934	800	6.05	34.26	26.984	108.3	1.934
850	3.55	34.39	27.369	71.8	1.324	850	5.29	34.27	27.085	98.6	1.990	850	5.29	34.27	27.085	98.6	1.990
900	3.43	34.41	27.396	69.1	1.362	900	4.68	34.27	27.155	92.0	2.043	900	4.68	34.27	27.155	92.0	2.043
950	3.20	34.43	27.434	65.6	1.399	950	4.36	34.31	27.222	85.7	2.092	950	4.36	34.31	27.222	85.7	2.092
1000	3.09	34.45	27.460	63.1	1.435	1000	4.08	34.34	27.276	80.6	2.138	1000	4.08	34.34	27.276	80.6	2.138
1100	2.87	34.48	27.504	58.9	1.503	1100	3.39	34.38	27.376	71.0	2.222	1100	3.39	34.38	27.376	71.0	2.222
1200	2.69	34.50	27.536	55.9	1.560	1200	3.30	34.43	27.425	66.5	2.300	1200	3.30	34.43	27.425	66.5	2.300
1300	2.53	34.52	27.566	53.1	1.629	1300	2.86	34.45	27.481	61.1	2.372	1300	2.86	34.45	27.481	61.1	2.372
1400	2.42	34.54	27.591	50.7	1.689	1400	2.60	34.49	27.536	55.9	2.439	1400	2.60	34.49	27.536	55.9	2.439
1500	2.31	34.55	27.608	49.1	1.746	1468	2.45	34.52	27.573	52.4	2.481						
1600	2.176	34.572	27.637	46.4	1.802												
1700	2.087	34.586	27.655	44.6	1.855												
1800	2.020	34.597	27.669	43.3	1.907												
1900	1.959	34.608	27.683	42.0	1.957												
2000	1.902	34.617	27.695	40.9	2.007												
2100	1.842	34.626	27.706	39.8	2.056												
2200	1.797	34.633	27.716	38.9	2.104												
2300	1.754	34.641	27.725	38.0	2.151												
2400	1.713	34.647	27.733	37.3	2.197												
2500	1.689	34.651	27.738	36.8	2.243												
2600	1.665	34.655	27.743	36.3	2.289												
2700	1.623	34.662	27.752	35.5	2.334												
2800	1.580	34.668	27.760	34.7	2.379												
2900	1.572	34.669	27.761	34.6	2.423												
3000	1.532	34.674	27.768	33.9	2.467												
3036	1.509	34.677	27.772	33.5	2.483												

RV THOMAS WASHINGTON

INDOPAC LEG II

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LATITUDE 31 35. N			LONGITUDE 141 12.5E			MO/DAY/YR 5/ 7/76			MESSENGER 153P 1911			TIME GMT			BOTTOM 4066M			WIND 300			SPEED KNT			WEATHER 1			DOMINANT WAVES 049 5		
Z	T	S	02	P04	SI03	N02	N03	DT	Z	T	S	02	SI01	DT	DD														
0	20.27	34.661	5.28	0.00	2.	0.00	0.2	348.9	0	20.27	34.661	5.28	24.452	348.9	0.000														
20	20.27	34.660	5.32	0.01	2.	0.00	0.2	349.0	10	20.27	34.661	5.30	24.452	348.9	0.035														
36	20.04	34.708	5.25	0.25	2.	0.07	0.5	339.7	20	20.27	34.660	5.32	24.451	349.0	0.070														
49	19.34	34.747	5.21	0.29	2.	0.09	0.7	319.5	30	20.16	34.688	5.26	24.496	344.7	0.105														
71	18.99	34.750	5.13	0.28	3.	0.07	1.5	310.8	50	19.34	34.748	5.21	24.766	316.8	0.171														
94	18.58	34.768	4.81	0.32	5.	0.03	3.2	299.6	75	18.93	34.753	5.06	24.869	309.2	0.250														
118	17.74	34.777	4.60	0.43	5.	0.03	5.0	279.2	100	18.37	34.772	4.74	25.025	294.3	0.326														
143	17.33	34.761	4.64	0.47	6.	0.04	5.1	270.9	125	17.60	34.774	4.61	25.215	276.2	0.399														
166	16.96	34.748	4.96	0.44	5.	0.04	4.2	263.5	150	17.21	34.756	4.73	25.297	266.5	0.468														
195	16.70	34.739	5.24	0.41	5.	0.04	3.3	258.3	200	16.68	34.740	5.22	25.408	257.9	0.602														
223	16.58	34.737	5.15	0.46	5.	0.03	4.0	255.8	250	16.25	34.713	4.88	25.488	250.2	0.733														
250	16.25	34.713	4.88	0.57	7.	0.00	5.8	250.2	300	15.12	34.643	4.47	25.688	231.3	0.867														
285	15.48	34.666	4.55	0.60	10.	0.01	7.2	237.0	400	12.74	34.468	4.18	26.051	196.7	1.081														
321	14.63	34.607	4.39	0.71	13.	0.01	10.6	223.6	500	10.36	34.312	3.82	26.372	166.3	1.273														
365	13.76	34.541	4.27	0.81	16.	0.00	12.5	211.0	600	7.66	34.140	3.56	26.669	138.1	1.435														
418	12.21	34.433	4.13	1.10	23.	0.00	15.7	189.4	700	5.67	34.099	2.78	26.904	115.9	1.572														
478	10.99	34.358	3.86	1.31	30.	0.00	18.9	173.4	800	4.59	34.140	1.93	27.062	100.9	1.688														
545	9.03	34.219	3.74	1.64	40.	0.00	22.7	152.0	1000	3.76	34.276	1.21	27.257	82.4	1.888														
630	7.01	34.110	3.42	1.88	57.	0.00	28.0	131.5	1200	3.07	34.393	1.01	27.416	67.3	2.054														
801	4.58	34.139	1.92	2.62	96.	0.00	38.1	100.8	1500	2.51	34.497	1.00	27.549	54.7	2.261														
832A	4.52	34.152	1.81	2.70	99.	0.00	38.0	99.2	1750	2.19	34.555	1.35	27.621	47.9	2.430														
1026A	3.62	34.297	1.14	3.01	126.	0.00	41.7	79.4	2000	1.95	34.605	1.89	27.680	42.3	2.544														
1222A	3.02	34.402	0.99	3.08	144.	0.00	42.7	66.1	2250	1.79	34.632	2.37	27.714	39.6	2.667														
1417A	2.63	34.475	0.94	3.05	157.	0.00	43.6	57.3	2500	1.69	34.646	2.69	27.733	37.2	2.785														
1611A	2.37	34.522	1.13	3.03	163.	0.00	43.1	51.7	2750	1.62	34.658	2.86	27.748	35.8	2.899														
1806A	2.13	34.566	1.45	2.98	167.	0.00	42.4	46.5	3000	1.56	34.663	3.02	27.757	35.0	3.012														
1999A	1.95	34.585	U	2.07	U	0.00	40.5	39.4	3250	1.51	34.675	3.19	27.770	33.7	3.123														
2194A	1.82	34.629	2.30	2.74	165.	0.00	40.5	39.4	3500	1.47	34.681	3.35	27.777	33.0	3.233														
2390A	1.73	34.637	2.54	2.69	164.	0.00	39.7	38.1	3750	1.46	34.688	3.44	27.784	32.4	3.342														
2585A	1.66	34.651	2.79	2.65	163.	0.00	39.1	36.6	4000	1.46	34.689	3.59	27.785	32.3	3.452														
2780A	1.61	34.658	2.87	2.61	161.	0.00	38.8	35.7																					
2976A	1.57	34.661	3.00	2.62	161.	0.00	38.2	35.2																					
3173A	1.522	34.674	3.14	2.60	160.	0.00	38.1	33.9																					
3370A	1.488	34.676	3.27	2.56	159.	0.00	37.8	33.5																					
3568A	1.468	34.683	3.38	2.53	158.	0.00	37.4	32.8																					
3769A	1.456	34.688	3.45	2.53	156.	0.00	37.0	32.4																					
3970A	1.461	34.689	3.58	2.51	156.	0.00	36.9	32.3																					

RV THOMAS WASHINGTON

INDOPAC LEG II

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LATITUDE 31 42.8N			LONGITUDE 142 12.3E			MO/DAY/YR 5/ 8/76			MESSENGER TIME 0248 0817 GMT			BOTTOM 9100M			WIND 120			SPEED 6KT			WEATHER 1			DOMINANT WAVES 120 4 6		
Z	T	S	02	P04	SI03	N02	N03	DT	Z	T	S	02	SI01	DT	DD											
1	18.86	34.553	5.47	0.16	4.	0.00	0.3	321.9	0	18.86	34.553	5.47	24.735	321.9	0.000											
10	18.76	34.557	5.57	0.09	4.	0.00	0.2	319.2	10	18.76	34.557	5.57	24.763	319.2	0.032											
26	18.21	34.641	5.64	0.10	4.	0.00	0.3	300.0	20	18.45	34.607	5.63	24.878	308.4	0.064											
50	17.13	34.709	5.62	0.12	4.	0.13	0.2	270.1	30	18.01	34.657	5.64	25.025	294.3	0.094											
80	17.01	34.724	5.41	0.17	4.	1.01	0.4	266.3	50	17.13	34.709	5.62	25.279	270.1	0.150											
110	16.91	34.715	5.43	0.18	4.	0.87	0.7	264.7	75	17.03	34.722	5.44	25.312	267.0	0.218											
139	16.84	34.710	5.45	0.18	4.	0.54	1.0	263.5	100	16.94	34.720	5.42	25.332	265.1	0.285											
170	16.59	34.722	5.03	0.18	6.	0.03	4.0	257.1	125	16.88	34.712	5.44	25.340	264.4	0.352											
200	15.71	34.682	4.60	0.52	9.	0.04	8.0	240.8	150	16.80	34.717	5.33	25.363	262.1	0.419											
249	14.90	34.621	4.39	0.69	12.	0.04	10.1	228.1	200	15.71	34.682	4.60	25.588	240.6	0.548											
347	12.17	34.430	4.16	1.11	23.	0.00	15.8	188.9	250	14.87	34.620	4.39	25.725	227.8	0.668											
445	10.07	34.274	4.10	1.37	32.	0.00	19.6	164.2	300	13.53	34.521	4.24	25.933	208.0	0.781											
543	7.47	34.122	3.59	1.84	52.	0.00	26.6	136.8	400	11.03	34.347	4.13	26.282	174.8	0.981											
642	5.58	34.069	2.78	2.37	75.	0.00	33.5	117.0	500	8.60	34.180	3.86	26.560	148.5	1.152											
740	4.59	34.135	1.94	2.72	96.	0.00	38.4	101.2	600	6.28	34.079	3.14	26.811	124.7	1.297											
838	4.23	34.214	1.56	2.83	109.	0.00	40.5	91.6	700	4.90	34.102	2.26	26.997	107.0	1.421											
985	3.55	34.304	1.10	3.04	129.	0.00	42.6	78.2	800	4.34	34.185	1.68	27.125	94.9	1.529											
1182	3.04	34.394	0.96	3.11	144.	0.00	43.7	66.9	900	3.50	34.313	1.09	27.311	77.2	1.717											
1380	2.63	34.468	0.96	3.09	157.	0.00	44.2	57.8	1000	3.00	34.402	0.96	27.430	66.0	1.875											
1559A	2.35	34.526	1.15		164.	0.00	43.0	51.2	1200	2.44	34.511	1.09	27.567	53.0	2.078											
1579	2.32	34.528	1.23	3.04	164.	0.00	43.9	50.8	1750	2.14	34.553	1.56	27.628	47.2	2.223											
1855A	2.07	34.579	1.64	2.84	168.	0.02	42.0	45.0	2000	1.96	34.597	1.85	27.674	42.7	2.356											
2152A	1.85	34.616	2.07	2.78	169.	0.02	40.7	40.6	2250	1.79	34.626	2.24	27.709	39.3	2.481											
2450A	1.70	34.646	2.56	2.68	166.	0.02	39.7	37.2	2500	1.68	34.648	2.62	27.736	36.9	2.598											
2747A	1.61	34.654	2.87	2.64	163.	0.02	38.9	36.0	2750	1.61	34.655	2.87	27.747	36.0	2.712											
3044A	1.54	34.665	3.17E	2.60	161.	0.02	38.1	34.7	3000	1.55	34.664	3.13	27.758	34.6	2.825											
3341A	1.50	34.673	3.58U	2.45	160.	0.00	37.9	33.8	3250	1.51	34.671	3.28	27.767	34.0	2.936											
3638A	1.48	34.677	3.40	2.38	158.	0.01	37.5	33.3	3500	1.49	34.676	3.37	27.772	33.5	3.047											
3936A	1.48	34.685	3.50	2.44	158.	0.01	37.2	32.7	3750	1.48	34.681	3.44	27.777	33.1	3.158											
4232A	1.47	34.688	3.57	2.39	155.	0.01	36.9	32.4	4000	1.48	34.686	3.52	27.781	32.7	3.270											
4530A	1.471	34.690	3.66	2.39	154.	0.01	36.6	32.3	4250	1.47	34.689	3.58	27.784	32.4	3.382											
4828A	1.498	34.693	3.69	2.41	153.	0.01	36.4	32.3	4500	1.47	34.690	3.65	27.785	32.3	3.496											
5124A	1.522	34.694	3.74	2.42	152.	0.00	36.4	32.3	4750	1.49	34.693	3.68	27.786	32.3	3.611											
5422A	1.561	34.691	3.75	2.44	152.	0.00	36.4	32.8	5000	1.51	34.694	3.72	27.735	32.3	3.728											
5718A	1.600	34.692	3.73	2.43	150.	0.00	36.3	33.0	5250	1.54	34.693	3.74	27.783	32.5	3.848											
6017A	1.646	34.693	3.80	2.47	150.	0.00	36.3	33.3	5500	1.57	34.692	3.74	27.779	32.9	3.971											
6314A	1.688	34.693	3.80	2.47	150.	0.00	36.2	33.6	5750	1.61	34.693	3.74	27.777	33.1	4.097											
6611A	1.728	34.694	3.81	2.45	149.	0.00	36.2	33.8	6000	1.65	34.694	3.80	27.775	33.3	4.227											
6909A	1.776	34.696	3.81	2.42	149.	0.00	36.2	34.0	6250	1.68	34.694	3.80	27.772	33.5	4.360											
7207A	1.819	34.692	3.84	2.41	149.	0.00	36.3	34.6	6500	1.71	34.694	3.81	27.770	33.7	4.496											
									6750	1.75	34.696	3.81	27.769	33.9	4.635											
									7000	1.79	34.695	3.82	27.766	34.1	4.777											

S D						INDOPAC LEG II						6					
LATITUDE		LONGITUDE		MO/DAY/YR		START TIME		LATITUDE		LONGITUDE		MO/DAY/YR		START TIME			
31 35. N		141 12.5E		05/07/76		1412 GMT		31 42.8N		142 12.3E		05/08/76		0751 GMT			
Z	T	S	SIGMA T	DT	DD			Z	T	S	SIGMA T	DT	DD				
0	20.28	34.64	24.433	350.7	0.000			0	18.85	34.54	24.728	322.6	0.000				
10	20.27	34.66	24.451	349.0	0.035			10	18.74	34.55	24.763	319.3	0.032				
20	20.25	34.67	24.464	347.7	0.070			20	18.49	34.58	24.649	311.1	0.064				
30	20.05	34.70	24.540	340.5	0.104			30	17.51	34.65	25.143	283.1	0.093				
40	19.72	34.73	24.649	330.1	0.138			40	17.17	34.68	25.247	273.2	0.121				
50	19.51	34.74	24.711	324.2	0.171			50	17.08	34.68	25.269	271.1	0.149				
75	18.96	34.76	24.867	309.3	0.251			75	17.00	34.72	25.318	266.4	0.216				
100	18.62	34.77	24.961	300.4	0.328			100	16.90	34.70	25.327	265.6	0.284				
125	17.56	34.76	25.215	276.3	0.401			125	16.84	34.71	25.349	263.5	0.351				
150	17.38	34.76	25.258	272.1	0.470			150	16.80	34.73	25.373	261.2	0.417				
175	16.97	34.75	25.348	263.5	0.539			175	16.20	34.69	25.482	250.8	0.483				
200	16.74	34.74	25.395	259.1	0.605			200	15.50	34.67	25.626	237.2	0.545				
225	16.66	34.74	25.414	257.3	0.672			225	15.17	34.64	25.676	232.4	0.605				
250	16.54	34.74	25.442	254.7	0.737			250	14.73	34.61	25.749	225.4	0.664				
275	16.30	34.72	25.482	250.6	0.803			275	13.94	34.55	25.871	213.8	0.721				
300	16.02	34.70	25.531	246.2	0.867			300	13.27	34.50	25.971	204.4	0.775				
350	14.95	34.60	25.694	230.7	0.991			350	11.84	34.41	26.181	184.4	0.877				
400	13.60	34.52	25.919	209.3	1.106			400	10.91	34.35	26.306	172.6	0.970				
450	12.20	34.41	26.112	190.9	1.212			450	9.83	34.26	26.424	161.4	1.058				
500	10.87	34.31	26.282	174.8	1.309			500	8.46	34.15	26.559	148.6	1.140				
550	9.34	34.21	26.466	157.4	1.397			550	7.38	34.11	26.687	136.4	1.216				
600	7.66	34.12	26.654	139.5	1.477			600	6.38	34.06	26.784	127.2	1.286				
650	6.24	34.03	26.778	127.6	1.548			650	5.53	34.07	26.899	116.3	1.351				
700	5.54	34.06	26.890	117.2	1.614			700	4.93	34.10	26.993	107.4	1.411				
750	5.04	34.08	26.964	110.1	1.675			750	4.62	34.13	27.051	101.9	1.467				
800	4.75	34.11	27.021	104.7	1.733			800	4.29	34.18	27.127	94.7	1.520				
850	4.38	34.16	27.101	97.1	1.787			850	4.24	34.24	27.179	89.7	1.570				
900	4.18	34.19	27.146	92.9	1.839			900	3.97	34.26	27.223	85.5	1.618				
950	3.89	34.24	27.216	86.3	1.888			950	3.76	34.28	27.261	82.0	1.663				
1000	3.70	34.27	27.259	82.2	1.934			1000	3.47	34.32	27.321	76.3	1.707				
1100	3.31	34.34	27.352	73.3	2.020			1100	3.18	34.37	27.388	69.9	1.788				
1200	3.12	34.39	27.410	67.9	2.098			1200	2.97	34.40	27.432	65.8	1.863				
1300	2.85	34.43	27.466	62.5	2.172			1300	2.73	34.45	27.493	60.0	1.934				
1400	2.67	34.46	27.506	58.8	2.240			1400	2.58	34.47	27.522	57.3	2.001				
1500	2.49	34.50	27.553	54.3	2.305			1500	2.42	34.51	27.567	53.0	2.064				
1600	2.336	34.524	27.586	51.2	2.366			1592	2.29	34.53	27.594	50.4	2.119				
1700	2.242	34.543	27.608	49.1	2.425												
1800	2.115	34.566	27.637	46.3	2.481												
1900	2.036	34.581	27.655	44.6	2.535												
2000	1.958	34.597	27.674	42.8	2.587												
2100	1.890	34.609	27.689	41.4	2.637												
2200	1.827	34.622	27.704	40.0	2.687												
2300	1.774	34.630	27.715	39.0	2.735												
2400	1.726	34.639	27.726	37.9	2.782												
2500	1.629	34.655	27.746	36.0	2.828												
2600	1.579	34.664	27.757	35.0	2.873												
2700	1.627	34.655	27.746	36.0	2.917												
2800	1.612	34.659	27.750	35.6	2.963												
2900	1.579	34.664	27.757	35.0	3.008												
3000	1.557	34.668	27.762	34.6	3.052												
3100	1.538	34.670	27.764	34.3	3.097												
3200	1.513	34.676	27.771	33.7	3.141												
3300	1.496	34.677	27.773	33.5	3.184												
3400	1.482	34.680	27.777	33.1	3.228												
3500	1.480	34.681	27.778	33.0	3.272												
3600	1.475	34.682	27.779	32.9	3.316												
3700	1.467	34.684	27.781	32.7	3.360												
3800	1.467	34.685	27.782	32.7	3.404												
3900	1.463	34.686	27.783	32.5	3.448												
3968	1.465	34.686	27.783	32.6	3.478												

RV THOMAS WASHINGTON

INDOPAC LEG II

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LATITUDE 31 40.6N		LONGITUDE 143 20.4E		MO/DAY/YR 5/ 8/76		MESSENGER 1714 2138		TIME GMT	DEPTH 5861M	WIND 080	SPEED 11KT	WEATHER 1	DOMINANT WAVES		
Z	T	S	Q2	P04	S103	N02	N03	DT	Z	T	S	Q2	SIGT	DT	CD
0	20.41	34.713	5.34	0.00	2.	0.00	0.1	348.7	0	20.41	34.713	5.34	24.454	348.7	0.000
15	20.35	34.713	5.38	0.04	2.	0.00	0.0	347.1	10	20.37	34.713	5.37	24.466	347.5	0.035
35	20.34	34.714	5.32	0.01	2.	0.00	0.0	346.8	20	20.35	34.714	5.37	24.471	347.1	0.070
55	19.41	34.780	5.31	0.02	2.	0.00	0.0	318.8	30	20.34	34.714	5.34	24.473	346.9	0.104
76	19.11	34.778	5.15	0.06	2.	0.17	0.3	311.6	50	19.66	34.762	5.31	24.690	326.2	0.172
100	18.46	34.774	5.15	0.07	3.	0.16	0.6	296.3	75	19.12	34.779	5.16	24.841	311.8	0.252
120	18.15	34.760	4.86	0.13	4.	0.04	2.9	290.0	100	18.46	34.774	5.15	25.004	296.3	0.329
140	17.92	34.768	4.98	0.09	4.	0.04	2.6	280.0	125	18.09	34.761	4.87	25.087	288.4	0.403
170	17.59	34.769	5.16	0.10	3.	0.12	1.8	276.3	150	17.81	34.770	5.06	25.161	281.3	0.475
199	17.23	34.750	5.05	0.13	4.	0.06	2.6	269.4	200	17.22	34.750	5.05	25.288	269.3	0.616
229	17.07	34.752	4.99	0.16	4.	0.04	3.2	265.6	250	16.88	34.752	4.94	25.371	261.4	0.752
263	16.75	34.750	4.91	0.22	5.	0.06	4.3	258.6	300	16.39	34.733	4.77	25.470	252.0	0.885
297	16.42	34.734	4.78	0.31	3.	0.07	5.2	252.4	400	15.14	34.642	4.49	25.684	231.6	1.137
337	16.04	34.707	4.70	0.30	8.	0.00	6.9	246.1	500	12.70	34.460	4.24	26.053	198.6	1.363
396	15.22	34.647	4.51	0.36	10.	0.00	8.7	232.9	600	10.31	34.291	4.09	26.365	166.9	1.558
465	13.58	34.524	4.27	0.70	16.	0.01	12.7	208.7	700	7.97	34.168	3.47	26.646	140.3	1.724
544	11.60	34.381	4.22	0.87	24.	0.01	16.2	182.3	800	5.94	34.128	2.60	26.892	116.9	1.864
643	9.35	34.230	3.91	1.17	36.	0.01	21.6	156.1	1000	4.16	34.215	1.42	27.167	90.9	2.091
791	6.07	34.127	2.67	1.96	71.	0.00	33.0	118.4	1200	3.39	34.349	1.01	27.351	73.4	2.273
895A	4.90	34.147	1.94	2.26	92.		35.9	103.6	1500	2.69	34.467	0.94	27.510	58.4	2.498
991	4.21	34.207	1.45	2.62	108.		40.9	91.9	1750	2.32	34.530	1.22	27.591	50.7	2.656
1096A	3.77	34.291	1.17	2.75	122.		40.5	81.3	2000	2.07	34.577	1.56	27.649	45.2	2.758
1319A	3.04	34.398	0.93	2.95	144.		42.2	66.6	2250	1.86	34.617	2.00	27.697	40.6	2.928
1544A	2.62	34.480	0.94	2.77	156.		43.3	56.8	2500	1.72	34.638	2.36	27.724	38.1	3.050
1793A	2.27	34.538	1.29	2.93	163.		42.6	49.7	2750	1.64	34.650	2.70	27.740	36.5	3.166
2042A	2.03	34.583	1.62	2.87	166.		41.9	44.4	3000	1.58	34.660	2.93	27.753	35.3	3.281
2315A	1.81	34.624	2.12	2.65	166.		40.6	39.7	3250	1.54	34.668	3.04	27.762	34.3	3.394
2588A	1.69	34.641	2.47	2.58	166.		39.6	37.5	3500	1.52	34.676	3.17	27.771	33.7	3.506
2887A	1.61	34.657	2.87	2.59	164.		38.8	35.8	3750	1.49	34.680	3.31	27.776	33.2	3.618
3186A	1.54		3.00	2.45	161.		38.4		4000	1.48	34.682	3.46	27.778	33.0	3.730
3460A	1.52	34.675	3.15	2.46	161.		37.6	33.8	4250	1.48	34.687	3.49	27.781	32.7	3.843
3708A	1.49	34.679	3.28	2.51	160.		37.1	33.3	4500	1.49	34.692	3.56	27.786	32.3	3.957
3931A	1.48	34.681	3.44	2.49	159.		37.1	33.0	4750	1.50	34.694	3.64	27.786	32.3	4.072
4154A	1.48	34.683	3.47	2.45	157.		36.8	32.9	5000	1.52	34.694	3.71	27.785	32.4	4.190
4403A	1.48	34.691	3.53	2.37	155.		36.2	32.3	5250	1.54	34.695	3.77	27.784	32.4	4.310
4651A	1.493	34.693	3.61	2.41	155.		36.2	32.2	5500	1.56	34.697	3.78	27.783	32.5	4.432
4925A	1.510	34.693	3.69	2.35	152.		35.9	32.3	5750	1.59	34.697	3.81	27.782	32.7	4.557
5197A	1.531	34.694	3.76	2.28	152.		35.3	32.4							
5469A	1.562	34.696	3.78	2.31	151.		35.4	32.5							
5765A	1.590	34.696	3.81	2.31	148.		35.3	32.7							

RV THOMAS WASHINGTON

INDOPAC LEG II

8

LATITUDE		LONGITUDE		MO/DAY/YR		MESSENGER		TIME	DEPTH	WIND	SPEED	WEATHER	DOMINANT WAVES		
28 57.5N		143 48. E		5/ 9/76		1530 1914		GMT	5862M	050	KT	2	050 E 7		
Z	T	S	Q2	P04	S103	N02	N03	LT	Z	T	S	Q2	SIGT	LT	CD
0	20.48	34.732	5.46	0.14	2.	0.00	0.0	349.1	0	20.48	34.732	5.46	24.450	349.1	0.000
20	20.45	34.730	5.33	0.14	2.	0.00	0.0	348.4	10	20.47	34.731	5.40	24.453	348.8	0.035
36	19.30	34.744	5.42	0.11	2.	0.00	0.0	318.8	20	20.45	34.730	5.33	24.456	348.4	0.070
50	18.67	34.769	5.37	0.10	3.	0.06	0.0	301.7	30	19.76	34.737	5.39	24.642	330.8	0.104
71	18.25	34.781	5.42	0.17	3.	0.10	0.2	290.8	50	18.67	34.769	5.37	24.948	301.7	0.167
96	17.74	34.732	5.51	0.12	3.	0.12	0.0	282.4	75	18.16	34.774	5.44	25.079	289.1	0.242
126	17.59	34.725	5.36	0.13	3.	0.36	0.5	279.5	100	17.71	34.729	5.50	25.156	281.9	0.314
160	17.41	34.738	5.25	0.21	4.	0.22	0.0	274.4	125	17.59	34.725	5.37	25.180	279.5	0.385
200	17.10	34.741	5.31	0.37	4.	0.07	0.3	267.1	150	17.47	34.734	5.27	25.217	276.1	0.456
260	16.86	34.741	5.21	0.32	4.	0.06	2.8	261.7	200	17.10	34.741	5.31	25.311	267.1	0.594
329	16.45	34.734	5.00	0.39	6.	0.06	4.9	253.1	250	16.89	34.742	5.24	25.360	262.5	0.730
399	15.50	34.670	4.57	0.61	9.	0.04	8.3	237.2	300	16.66	34.742	5.11	25.414	257.3	0.864
457	13.85	34.545	4.32	0.86	15.	0.39	7.4	212.4	400	15.47	34.669	4.57	25.630	236.8	1.122
507	12.40	34.441	4.15	1.06	21.	0.00	15.5	192.3	500	12.60	34.456	4.17	26.069	195.0	1.350
566	10.79	34.326	4.13	1.30	28.	0.00	18.2	172.3	600	9.88	34.261	4.02	26.415	162.2	1.541
626	9.19	34.212	3.91	1.58	37.	0.00	22.0	154.9	700	7.29	34.096	3.61	26.688	136.3	1.702
686	7.64	34.114	3.71	1.84	48.	0.00	25.9	139.7	800	5.26	34.074	2.48	26.934	113.0	1.837
735	6.46	34.062	3.28	2.14	60.	0.00	29.7	128.1	1000	4.10	34.259	1.23	27.209	87.0	2.055
795	5.32	34.070	2.53	2.50	78.	0.00	34.8	114.0	1200	3.35	34.362	1.00	27.381	70.6	2.230
940A	4.27	34.200	1.46	2.63	106.	0.00	38.7	93.0	1500	2.65	34.494	1.16	27.535	56.1	2.447
997	4.11	34.255	1.24	2.97	112.	0.00	41.5	87.3	1750	2.24	34.553	1.40	27.616	48.3	2.599
1140A	3.54	34.352	1.01	2.85	129.	0.03	41.4	74.5	2000	1.97	34.593	1.77	27.669	43.3	2.735
1363A	2.92	34.443	0.99	2.96	147.		42.0	62.1	2250	1.81	34.625	2.19	27.708	39.7	2.861
1587A	2.50	34.520	1.28	2.91	157.	0.01	42.0	52.8	2500	1.69	34.644	2.53	27.732	37.2	2.979
1836A	2.13	34.566	1.48	2.91	166.	0.00	42.2	46.5	2750	1.61	34.656	2.78	27.748	35.8	3.093
2086A	1.91	34.604	1.94	2.84	167.	0.00	40.9	41.9	3000	1.56	34.665	2.98	27.758	34.8	3.206
2360A	1.75	34.635	2.34		166.	0.00	39.8	38.4	3250	1.52	34.672	3.17	27.767	34.0	3.317
2632A	1.64	34.652	2.68	2.46	164.	0.00	39.1	36.3	3500	1.50	34.677	3.29	27.772	33.5	3.428
2932A	1.57	34.662	2.92	2.55	162.	0.00	38.6	35.1	3750	1.48	34.681	3.40	27.777	33.1	3.540
3231A	1.52	34.671	3.16	2.38	159.	0.00	38.1	34.1	4000	1.47	34.684	3.54	27.780	32.8	3.651
3505A	1.497	34.676	3.29	2.37	158.	0.00	37.5	33.5	4250	1.47	34.687	3.59	27.783	32.5	3.764
3754A	1.479	34.680	3.40	2.39	158.	0.00	37.0	33.1	4500	1.47	34.690	3.71	27.785	32.3	3.877
3977A	1.467	34.683	3.50	2.37	156.	0.00	36.7	32.8	4750	1.49	34.694	3.73	27.786	32.2	3.993
4202A	1.468	34.686	3.56	2.37	154.	0.00	36.6	32.6	5000	1.51	34.693	3.79	27.784	32.4	4.110
4451A	1.469	34.689	3.71	2.30	154.	0.00	35.8	32.4	5250	1.53	34.694	3.84	27.784	32.5	4.230
4700A	1.491	34.693	3.72	2.38	151.	0.00	35.8	32.2	5500	1.55	34.695	3.89	27.783	32.5	4.352
4975A	1.504	34.692	3.78	2.36	150.	0.00	36.1	32.4	5750	1.58	34.696	3.90	27.782	32.6	4.477
5247A	1.529	34.693	3.84	2.29	147.	0.00	35.3	32.5							
5520A	1.557	34.695	3.89	2.29	147.	0.00	35.3	32.5							
5811A	1.59	34.696	3.90	2.29	146.	0.00	35.0	32.7							

7 D

INDOPAC LEG II

B D

LATITUDE		LONGITUDE		MO/DAY/YR		START TIME		LATITUDE		LONGITUDE		MO/DAY/YR		START TIME	
31 40.6N		143 20.4E		05/08/76		1523 GMT		28 57.5N		143 48. E		05/09/76		1356 GMT	
Z	T	S	SIGMA T	DT	UN	Z	T	S	SIGMA T	DT	CD	Z	T	S	CD
0	20.42	34.71	24.449	349.1	0.000	0	20.53	34.71	24.415	352.4	0.000	0	20.53	34.71	24.415
10	20.41	34.72	24.460	348.2	0.035	10	20.54	34.72	24.425	351.5	0.035	10	20.54	34.72	24.425
20	20.41	34.72	24.460	348.2	0.070	20	20.53	34.73	24.455	350.5	0.070	20	20.53	34.73	24.455
30	20.37	34.74	24.485	345.7	0.105	30	20.21	34.73	24.520	342.4	0.105	30	20.21	34.73	24.520
40	19.82	34.77	24.693	329.7	0.138	40	19.28	34.76	24.786	317.1	0.138	40	19.28	34.76	24.786
50	19.60	34.78	24.718	323.5	0.171	50	18.65	34.75	24.934	302.6	0.169	50	18.65	34.75	24.934
75	19.14	34.80	24.852	310.8	0.251	75	17.83	34.72	25.119	285.4	0.243	75	17.83	34.72	25.119
100	18.47	34.78	25.006	296.1	0.328	100	17.65	34.73	25.170	280.5	0.315	100	17.65	34.73	25.170
125	18.12	34.78	25.093	287.8	0.402	125	17.41	34.72	25.223	275.0	0.385	125	17.41	34.72	25.223
150	17.89	34.78	25.150	282.4	0.474	150	17.19	34.72	25.273	270.7	0.454	150	17.19	34.72	25.273
175	17.60	34.76	25.205	277.2	0.545	175	17.02	34.74	25.329	265.4	0.523	175	17.02	34.74	25.329
200	17.34	34.76	25.268	271.2	0.615	200	16.86	34.74	25.367	261.8	0.590	200	16.86	34.74	25.367
225	17.14	34.76	25.316	266.6	0.684	225	16.72	34.74	25.400	258.7	0.657	225	16.72	34.74	25.400
250	16.89	34.76	25.375	261.0	0.752	250	16.60	34.74	25.428	256.0	0.723	250	16.60	34.74	25.428
275	16.67	34.75	25.419	256.6	0.819	275	16.44	34.73	25.457	253.2	0.789	275	16.44	34.73	25.457
300	16.44	34.74	25.465	252.4	0.885	300	16.29	34.73	25.492	249.9	0.854	300	16.29	34.73	25.492
350	15.88	34.71	25.571	242.4	1.014	350	15.69	34.69	25.594	239.8	0.981	350	15.69	34.69	25.594
400	14.85	34.63	25.738	226.5	1.136	400	14.67	34.61	25.762	224.2	1.103	400	14.67	34.61	25.762
450	14.00	34.56	25.866	214.3	1.253	450	13.62	34.53	25.922	209.0	1.217	450	13.62	34.53	25.922
500	12.84	34.46	26.026	199.1	1.362	500	12.27	34.42	26.107	191.5	1.323	500	12.27	34.42	26.107
550	11.20	34.34	26.246	178.3	1.463	550	10.86	34.33	26.299	173.2	1.421	550	10.86	34.33	26.299
600	10.23	34.28	26.371	166.4	1.555	600	9.61	34.23	26.437	160.1	1.510	600	9.61	34.23	26.437
650	8.84	34.19	26.531	151.3	1.641	650	8.10	34.12	26.590	145.6	1.592	650	8.10	34.12	26.590
700	7.54	34.14	26.688	136.4	1.719	700	6.73	34.06	26.737	131.6	1.667	700	6.73	34.06	26.737
750	6.79	34.13	26.784	127.2	1.790	750	5.88	34.05	26.840	121.9	1.735	750	5.88	34.05	26.840
800	5.99	34.13	26.889	117.3	1.857	800	5.10	34.08	26.957	110.8	1.798	800	5.10	34.08	26.957
850	5.31	34.13	26.972	109.4	1.916	850	4.83	34.12	27.020	104.8	1.856	850	4.83	34.12	27.020
900	4.75	34.15	27.053	101.7	1.976	900	4.47	34.16	27.091	98.1	1.911	900	4.47	34.16	27.091
950	4.32	34.20	27.139	93.5	2.029	950	4.21	34.21	27.159	91.7	1.963	950	4.21	34.21	27.159
1000	4.01	34.24	27.203	87.4	2.079	1000	4.00	34.25	27.213	86.6	2.012	1000	4.00	34.25	27.213
1100	3.62	34.32	27.306	77.7	2.170	1100	3.65	34.33	27.311	77.2	2.103	1100	3.65	34.33	27.311
1200	3.30	34.37	27.377	71.0	2.253	1200	3.24	34.39	27.399	68.9	2.185	1200	3.24	34.39	27.399
1300	3.03	34.40	27.426	66.3	2.331	1300	3.02	34.43	27.451	64.0	2.260	1300	3.02	34.43	27.451
1400	2.83	34.44	27.476	61.6	2.403	1400	2.85	34.46	27.490	60.3	2.331	1400	2.85	34.46	27.490
1500	2.68	34.47	27.513	58.1	2.472	1500	2.65	34.49	27.532	56.3	2.398	1500	2.65	34.49	27.532
1600	2.547	34.498	27.547	54.9	2.537	1600	2.467	34.528	27.574	52.0	2.461	1600	2.467	34.528	27.574
1700	2.408	34.517	27.574	52.3	2.600	1700	2.295	34.543	27.604	49.5	2.520	1700	2.295	34.543	27.604
1800	2.287	34.537	27.600	49.9	2.660	1800	2.163	34.566	27.633	46.7	2.577	1800	2.163	34.566	27.633
1900	2.185	34.559	27.626	47.4	2.718	1900	2.072	34.580	27.652	45.0	2.631	1900	2.072	34.580	27.652
2000	2.082	34.577	27.648	45.3	2.773	2000	1.981	34.595	27.671	43.1	2.684	2000	1.981	34.595	27.671
2100	2.005	34.590	27.665	43.7	2.827	2100	1.907	34.609	27.688	41.5	2.735	2100	1.907	34.609	27.688
2200	1.918	34.606	27.685	41.8	2.879	2200	1.836	34.621	27.703	40.1	2.784	2200	1.836	34.621	27.703
2300	1.861	34.616	27.697	40.7	2.929	2300	1.790	34.629	27.713	39.2	2.833	2300	1.790	34.629	27.713
2400	1.799	34.626	27.710	39.5	2.978	2400	1.749	34.636	27.722	38.3	2.880	2400	1.749	34.636	27.722
2500	1.753	34.634	27.720	38.5	3.027	2500	1.705	34.643	27.731	37.5	2.928	2500	1.705	34.643	27.731
2600	1.704	34.642	27.730	37.6	3.074	2600	1.665	34.650	27.739	36.7	2.974	2600	1.665	34.650	27.739
2700	1.670	34.649	27.738	36.8	3.121	2700	1.632	34.655	27.746	36.1	3.020	2700	1.632	34.655	27.746
2800	1.647	34.654	27.744	36.3	3.167	2800	1.608	34.659	27.751	35.6	3.065	2800	1.608	34.659	27.751
2900	1.625	34.658	27.749	35.6	3.213	2900	1.592	34.662	27.754	35.3	3.110	2900	1.592	34.662	27.754
3000	1.593	34.663	27.755	35.2	3.259	3000	1.574	34.666	27.759	34.8	3.155	3000	1.574	34.666	27.759
3100	1.572	34.666	27.759	34.8	3.304	3100	1.553	34.669	27.763	34.5	3.200	3100	1.553	34.669	27.763
3200	1.552	34.670	27.763	34.4	3.349	3200	1.541	34.672	27.766	34.1	3.244	3200	1.541	34.672	27.766
3300	1.538	34.673	27.767	34.0	3.394	3300	1.523	34.675	27.770	33.8	3.289	3300	1.523	34.675	27.770
3400	1.527	34.675	27.769	33.8	3.438	3400	1.513	34.677	27.772	33.6	3.333	3400	1.513	34.677	27.772
3500	1.517	34.677	27.772	33.6	3.483	3500	1.501	34.678	27.774	33.4	3.377	3500	1.501	34.678	27.774
3600	1.508	34.679	27.774	33.4	3.526	3600	1.491	34.680	27.776	33.2	3.422	3600	1.491	34.680	27.776
3700	1.503	34.681	27.776	33.2	3.573	3700	1.486	34.681	27.777	33.1	3.466	3700	1.486	34.681	27.777
3800	1.499	34.682	27.777	33.1	3.617	3800	1.479	34.682	27.778	33.0	3.511	3800	1.479	34.682	27.778
3900	1.490	34.684	27.779	32.9	3.662	3900	1.475	34.684	27.780	32.8	3.555	3900	1.475	34.684	27.780
4000	1.486	34.685	27.780	32.8	3.707	4000	1.474	34.685	27.781	32.7	3.600	4000	1.474	34.685	27.781
4100	1.483	34.687	27.782	32.6	3.752	4100	1.471	34.686	27.782	32.6	3.645	4100	1.471	34.686	27.782
4200	1.481	34.688	27.783	32.5	3.797	4200	1.470	34.688	27.784	32.4	3.690	4200	1.470	34.688	27.784
4300	1.482	34.689	27.784	32.4	3.843	4300	1.472	34.689	27.784	32.4	3.735	4300	1.472	34.689	27.784
4400	1.481	34.690	27.785	32.4	3.888	4400	1.474	34.690	27.785	32.3	3.780	4400	1.474	34.690	27.785
4500	1.487	34.690	27.784	32.4	3.934	4500	1.477	34.692	27.786	32.2	3.826	4500	1.477	34.692	27.786
4600	1.484	34.693	27.787	32.2	3.980	4600	1.482	34.693	27.787	32.2	3.872	4600	1.482	34.693	27.787
4700	1.492	34.693	27.786	32.2	4.026	4700	1.484	34.695	27.788	32.0	3.918	4700	1.484	34.695	27.788
4800	1.496	34.694	27.787	32.2	4.072	4800	1.494	34.695	27.788	32.1	3.964	4800	1.494	34.695	27.788
4900	1.504	34.694	27.786	32.2	4.119	4900	1.500	34.696	27.788	32.0	4.011	4900	1.500	34.696	27.788
5000	1.511	34.694	27.786	32.3	4.166	5000	1.507	34.696	27.788	32.1	4.057	5000	1.507	34.696	27.788
5100	1.520	34.695	27.786	32.3	4.214	5100	1.516	34.696	27.787	32.2	4.105	5100	1.516	34.696	27.787
5200	1.535	34.695	27.785	32.3	4.262	5200	1.525	34.697	27.787	32.1	4.153	5200	1.525	34.697	27.787
5300	1.538	34.696	27.785	32.3	4.310	5300	1.535	34.698	27.787	32.1	4.201	5300	1.535	34.698	27.787
5400	1.548	34.696	27.785	32.4	4.359	5400	1.546	34.699	27.787	32.1	4.249	5400	1.546	34.699	27.787
5500	1.559	34.696	27.784	32.4	4.408										

AD-A068 240

SCRIPPS INSTITUTION OF OCEANOGRAPHY LA JOLLA CALIF
PHYSICAL, CHEMICAL AND BIOLOGICAL DATA. INDOPAC EXPEDITION, LEG--ETC(U)
DEC 78

F/G 8/1

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UNCLASSIFIED

SIO-REF-78-21

3 OF 5
AD
A068240



AD
A068

RV THOMAS WASHINGTON

INDOPAC LEG II

9

LATITUDE		LONGITUDE		MO/DAY/YR		MESSENGER		TIME	EOTOM		WIND	SPEED	WEATHER	DOMINANT WAVES		
28 16.0N		142 48.7E		5/10/76		0450 1125		GMT	4949H		070	19KT	2	050 6 6		
Z	T	S	02	P04	S103	N02	N03	DT	Z	T	S	02	S10T	DT	LD	
1	22.10	34.862	5.16	0.01	0.	0.00	0.0	381.9	0	22.10	34.862	5.16	24.105	381.9	0.000	
22	22.09	34.859	5.16	0.00	0.	0.00	0.0	381.9	10	22.10	34.860	5.16	24.105	381.9	0.038	
36	20.77	34.821	5.54	0.00	0.	0.01	0.0	350.0	20	22.09	34.859	5.16	24.106	381.9	0.076	
56	19.49	34.782	5.42	0.00	1.	0.01	0.0	320.7	30	21.38	34.836	5.38	24.286	364.7	0.114	
77	18.72	34.780	5.34	0.00	1.	0.02	0.0	302.1	50	19.81	34.791	5.46	24.672	327.9	0.183	
96	18.28	34.776	5.30	0.00	1.	0.36	0.0	291.9	75	18.77	34.780	5.35	24.929	303.4	0.263	
122	18.13	34.765	5.25	0.01	2.	0.14	0.4	289.2	100	18.25	34.774	5.29	25.055	291.4	0.338	
141	17.73	34.761	5.08	0.04	2.	0.06	0.0	280.1	125	18.07	34.764	5.22	25.094	287.8	0.411	
172	17.50	34.756	5.07	0.11	3.	0.08	0.4	275.2	150	17.64	34.759	5.08	25.195	278.1	0.483	
211	17.12	34.751	5.03	0.12	3.	0.04	0.1	266.9	200	17.23	34.752	5.05	25.288	269.3	0.623	
261	16.62	34.747	4.84	0.18	5.	0.03	0.2	255.9	250	16.73	34.750	4.89	25.403	258.3	0.758	
321	15.93	34.705	4.68	0.24	7.	0.06	0.8	243.8	300	16.18	34.724	4.73	25.512	248.0	0.889	
391	14.97	34.632	4.45	0.32	11.	0.04	9.4	228.8	400	14.82	34.622	4.43	25.737	226.6	1.137	
458	13.66	34.532	4.29	0.70	16.	0.01	12.8	209.6	500	12.47	34.451	4.17	26.091	192.9	1.359	
529	11.55	34.388	4.10	0.96	25.	0.01	17.2	180.9	600	9.18	34.204	4.12	26.486	155.5	1.545	
608	8.92	34.184	4.12	1.34	36.	0.02	21.7	152.9	700	6.55	34.047	3.51	26.751	130.4	1.699	
706	6.42	34.041	3.45	1.86	58.	0.01	29.6	129.2	800	5.01	34.098	2.29	26.981	108.5	1.827	
834	4.69	34.136	1.87	2.42	93.	0.00	39.0	102.2	1000	3.94	34.283	1.07	27.244	83.6	2.037	
970A	4.09	34.265	1.14	2.99	112.		39.0	86.3	1200	3.20	34.388	0.90	27.401	68.8	2.206	
1069	3.61	34.315	0.99	2.72	126.		44.1	76.0	1500	2.55	34.506	1.08	27.553	54.3	2.416	
1170A	3.28	34.372	0.90	3.09	137.		41.8	70.7	1750	2.15	34.574	1.42	27.639	46.2	2.563	
1367A	2.80	34.460	0.91	3.12	151.		41.9	59.8	2000	1.95	34.605	1.74	27.680	42.2	2.694	
1567A	2.44	34.525	1.18	3.05	160.		41.7	52.0	2250	1.81	34.631	2.06	27.712	39.1	2.818	
1816A	2.07	34.585		2.92	161.		40.9	44.6	2500	1.70	34.645	2.40	27.732	37.3	2.936	
2065A	1.92	34.608	1.82	2.82	162.		40.1	41.7	2750	1.61	34.662	2.72	27.752	35.4	3.050	
2316A	1.77	34.638	2.15	2.77	162.		38.8	38.3	3000	1.56	34.671	2.91	27.763	34.4	3.162	
2566A	1.68	34.647	2.49	2.67	161.		39.6	37.0	3250	1.52	34.675	3.05	27.769	33.8	3.272	
2740B	1.61	34.661	2.71	2.61	161.		38.5	35.5	3500	1.49	34.682	3.28	27.777	33.1	3.382	
2989B	1.56	34.670	2.90	2.69	160.		38.1	34.4	3750	1.48	34.689	3.44	27.783	32.5	3.492	
3239B	1.52	34.674	3.04	2.64	159.		37.5	33.8	4000	1.46	34.690	3.52	27.786	32.3	3.603	
3488B	1.49	34.681	3.27	2.57	158.		37.4	33.1	4250	1.46	34.696	3.62	27.790	31.8	3.713	
3735B	1.476	34.688	3.43	2.50	157.		37.2	32.5	4500	1.47	34.696	3.66	27.789	31.9	3.825	
3984B	1.463	34.689	3.51	2.48	156.		36.3	32.3	4750	1.49	34.696	3.69	27.788	32.0	3.940	
4183B	1.455	34.695	3.60	2.60	155.		35.6	31.8	5000	1.51	34.696	3.72	27.787	32.1	4.056	
4679B	1.482	34.695	3.68	2.51	152.		35.6	32.0								
4916B	1.502	34.696	3.71	2.41	152.		37.0	32.1								

9 D						INDOPAC LEG II						10 SU					
LATITUDE	LONGITUDE	MO/DAY/YR	START TIME			LATITUDE	LONGITUDE	MO/DAY/YR	START TIME			LATITUDE	LONGITUDE	MO/DAY/YR	START TIME		
28 16.0N	142 48.7E	05/10/76	0320 GMT			28 04. N	142 30. E	05/10/76	1526 GMT			28 04. N	142 30. E	05/10/76	1526 GMT		
Z	T	S	SIGMA T	DT	DD	Z	T	S	SIGMA T	DT	DD	Z	T	S	SIGMA T	DT	DD
0	22.72	34.87	23.936	398.1	0.000	0	22.18	34.85	24.074	384.9	0.000	0	22.18	34.85	24.074	384.9	0.000
10	22.74	34.88	23.938	397.9	0.040	10	22.17	34.86	24.084	383.9	0.038	10	22.17	34.86	24.084	383.9	0.038
20	22.72	34.88	23.944	397.3	0.080	20	22.05	34.85	24.110	381.4	0.077	20	22.05	34.85	24.110	381.4	0.077
30	22.44	34.88	24.023	369.8	0.119	30	21.17	34.83	24.338	359.7	0.114	30	21.17	34.83	24.338	359.7	0.114
40	21.60	34.86	24.243	368.8	0.157	40	19.38	34.79	24.783	317.4	0.148	40	19.38	34.79	24.783	317.4	0.148
50	20.10	34.80	24.602	334.5	0.192	50	18.90	34.76	24.883	307.9	0.179	50	18.90	34.76	24.883	307.9	0.179
75	18.79	34.75	24.903	305.9	0.273	75	18.48	34.75	24.981	298.5	0.256	75	18.48	34.75	24.981	298.5	0.256
100	18.21	34.77	25.063	290.7	0.348	100	18.08	34.76	25.088	288.3	0.330	100	18.08	34.76	25.088	288.3	0.330
125	18.05	34.77	25.103	286.9	0.422	125	17.73	34.76	25.173	280.2	0.402	125	17.73	34.76	25.173	280.2	0.402
150	17.70	34.76	25.181	279.5	0.493	150	17.43	34.76	25.246	273.3	0.472	150	17.43	34.76	25.246	273.3	0.472
175	17.36	34.75	25.255	272.4	0.564	175	17.13	34.76	25.318	266.4	0.541	175	17.13	34.76	25.318	266.4	0.541
200	17.06	34.75	25.327	265.6	0.633	200	16.78	34.75	25.393	259.3	0.608	200	16.78	34.75	25.393	259.3	0.608
225	16.88	34.75	25.370	261.5	0.700	225	16.48	34.74	25.456	253.3	0.674	225	16.48	34.74	25.456	253.3	0.674
250	16.72	34.75	25.407	257.9	0.767	250	16.15	34.72	25.517	247.5	0.738	250	16.15	34.72	25.517	247.5	0.738
275	16.47	34.74	25.458	253.1	0.833	275	15.89	34.71	25.569	242.6	0.801	275	15.89	34.71	25.569	242.6	0.801
300	16.23	34.73	25.506	248.6	0.898	300	15.62	34.68	25.607	239.0	0.864	300	15.62	34.68	25.607	239.0	0.864
350	15.52	34.67	25.641	237.6	1.024	350	14.97	34.63	25.712	228.9	0.986	350	14.97	34.63	25.712	228.9	0.986
400	14.92	34.62	25.715	228.6	1.146	400	14.09	34.57	25.855	215.4	1.102	400	14.09	34.57	25.855	215.4	1.102
450	13.46	34.51	25.940	207.4	1.261	450	12.65	34.45	26.056	196.3	1.211	450	12.65	34.45	26.056	196.3	1.211
500	12.24	34.43	26.120	190.2	1.367	500	11.11	34.34	26.262	176.7	1.310	500	11.11	34.34	26.262	176.7	1.310
550	10.65	34.31	26.341	171.1	1.463	550	9.82	34.26	26.425	161.2	1.400	550	9.82	34.26	26.425	161.2	1.400
600	8.94	34.18	26.507	153.5	1.550	600	8.27	34.15	26.588	145.9	1.482	600	8.27	34.15	26.588	145.9	1.482
650	7.32	34.08	26.643	140.6	1.629	650	7.21	34.11	26.711	134.2	1.557	650	7.21	34.11	26.711	134.2	1.557
700	6.27	34.04	26.782	127.4	1.767	700	6.85	34.15	26.792	126.5	1.627	700	6.85	34.15	26.792	126.5	1.627
750	5.44	34.04	26.886	117.6	1.829	750	5.74	34.10	26.897	116.5	1.693	750	5.74	34.10	26.897	116.5	1.693
800	5.12	34.07	26.947	111.7	1.887	800	5.10	34.11	26.981	108.5	1.754	800	5.10	34.11	26.981	108.5	1.754
850	4.85	34.12	27.018	105.1	1.942	850	4.72	34.16	27.064	100.7	1.811	850	4.72	34.16	27.064	100.7	1.811
900	4.48	34.17	27.098	97.4	1.993	900	4.29	34.20	27.142	93.2	1.863	900	4.29	34.20	27.142	93.2	1.863
950	4.19	34.23	27.177	90.0	2.042	950	4.07	34.23	27.189	88.8	1.913	950	4.07	34.23	27.189	88.8	1.913
1000	4.01	34.27	27.227	85.2	2.130	1000	3.68	34.28	27.269	81.3	1.960	1000	3.68	34.28	27.269	81.3	1.960
1100	3.52	34.34	27.332	75.2	2.211	1100	3.42	34.34	27.342	74.3	2.046	1100	3.42	34.34	27.342	74.3	2.046
1200	3.17	34.38	27.397	69.1	2.286	1200	3.11	34.40	27.419	67.0	2.125	1200	3.11	34.40	27.419	67.0	2.125
1300	2.92	34.42	27.452	63.9	2.356	1300	2.83	34.46	27.492	60.1	2.196	1300	2.83	34.46	27.492	60.1	2.196
1400	2.74	34.47	27.508	58.6	2.420	1400	2.71	34.48	27.519	57.6	2.263	1400	2.71	34.48	27.519	57.6	2.263
1500	2.51	34.51	27.560	53.7	2.481	1500	2.47	34.52	27.571	52.6	2.327	1500	2.47	34.52	27.571	52.6	2.327
1600	2.380	34.537	27.592	50.6	2.538	1600	2.270	34.554	27.615	48.4	2.385	1600	2.270	34.554	27.615	48.4	2.385
1700	2.206	34.564	27.628	47.2	2.592	1700	2.184	34.570	27.635	46.6	2.441	1700	2.184	34.570	27.635	46.6	2.441
1800	2.082	34.583	27.653	44.6	2.645	1800	2.108	34.585	27.653	44.8	2.495	1800	2.108	34.585	27.653	44.8	2.495
1900	2.041	34.591	27.663	43.9	2.697												
2000	1.966	34.604	27.679	42.3	2.747												
2100	1.908	34.615	27.693	41.1	2.796												
2200	1.840	34.625	27.706	39.8	2.844												
2300	1.788	34.634	27.717	38.6	2.892												
2400	1.746	34.641	27.726	37.9	2.938												
2500	1.720	34.647	27.733	37.3	2.985												
2600	1.678	34.654	27.741	36.5	3.030												
2700	1.645	34.659	27.748	35.9	3.075												
2800	1.612	34.665	27.755	35.2	3.120												
2900	1.587	34.669	27.760	34.7	3.165												
3000	1.573	34.672	27.764	34.4	3.209												
3100	1.549	34.675	27.768	34.0	3.253												
3200	1.530	34.678	27.771	33.6	3.297												
3300	1.525	34.680	27.774	33.4	3.341												
3400	1.508	34.682	27.776	33.2	3.385												
3500	1.493	34.684	27.779	32.9	3.428												
3600	1.488	34.685	27.780	32.6	3.472												
3700	1.478	34.687	27.782	32.4	3.516												
3800	1.476	34.689	27.784	32.4	3.560												
3900	1.475	34.689	27.784	32.2	3.605												
4000	1.474	34.691	27.786	32.1	3.649												
4100	1.470	34.692	27.787	32.1	3.694												
4200	1.468	34.693	27.788	32.1	3.739												
4300	1.468	34.694	27.789	32.0	3.784												
4400	1.469	34.694	27.789	32.0	3.829												
4500	1.478	34.695	27.789	32.0	3.874												
4600	1.478	34.694	27.788	32.1	3.920												
4700	1.489	34.694	27.787	32.2	3.967												
4800	1.493	34.694	27.787	32.1	4.013												
4900	1.500	34.695	27.787	32.3	4.061												
5000	1.513	34.694	27.785	32.2	4.073												
5027	1.516	34.695	27.786														

RV THOMAS WASHINGTON

INDOPAC LEG II

11

LATITUDE		LONGITUDE		MO/DAY/YR		MESSENGER		TIME		BOTTOM		WIND		SPEED		WEATHER		DOMINANT WAVES	
29 00.5N		143 14. E		5/11/76		0747 1045		GMT		4484M		070		17KT		1			
Z	T	S	O2	P04	SIG3	N02	N03	DT	Z	T	S	O2	SIGT	DT	DD				
0	23.13	34.686	4.610	0.01	2.	0.00	0.1	422.6	0	23.13	34.686	4.61	23.679	422.6	0.000				
10	23.03	34.704	5.06	0.01	2.	0.00	0.1	418.5	10	23.03	34.704	5.06	23.721	418.5	0.042				
25	22.01	34.831	5.20	0.04	2.	0.00	0.1	381.8	20	22.42	34.788	5.16	23.960	395.7	0.083				
45	20.44	34.822	5.34	0.04	2.	0.00	0.1	341.5	30	21.62	34.838	5.25	24.222	370.8	0.121				
65	19.16	34.800	5.31	0.06	2.	0.00	0.0	311.3	50	20.08	34.816	5.33	24.621	332.7	0.192				
89	18.48	34.781	5.11	0.10	3.	0.21	0.4	296.3	75	18.81	34.791	5.25	24.930	303.4	0.272				
119	17.93	34.793	4.67	0.32	4.	0.04	3.4	282.4	100	18.26	34.766	4.92	25.063	290.7	0.347				
149	17.36	34.765	4.85	0.31	4.	0.00	3.4	271.3	125	17.80	34.787	4.69	25.177	279.9	0.419				
178	17.14	34.771	4.70	0.36	5.	0.01	4.0	265.8	150	17.35	34.765	4.65	25.269	271.1	0.489				
218	16.65	34.748	3.900	0.47	6.	0.01	4.9	256.5	200	16.89	34.761	4.56	25.376	260.9	0.625				
257	16.04	34.711	4.22	0.47	6.	0.01	6.2	245.8	250	16.16	34.719	4.26	25.513	247.9	0.756				
307	14.92	34.627	2.970	0.65	10.	0.01	8.5	228.1	300	15.08	34.640	4.13	25.695	230.6	0.879				
366	13.98	34.553	4.05	0.81	14.	0.00	10.3	214.4	400	13.00	34.476	3.96	26.007	200.9	1.105				
436	11.79	34.587	3.84	1.14	21.	0.00	15.4	185.2	500	9.67	34.237	3.52	26.432	160.6	1.296				
514	9.23	34.209	3.43	1.52	35.	0.00	21.2	155.8	600	7.19	34.099	2.77	26.703	134.8	1.453				
594	7.34	34.104	2.82	1.95	51.	0.00	27.0	136.3	700	5.38	34.071	2.30	26.917	114.6	1.587				
683	5.54	34.064	2.30	2.38	74.	0.00	34.0	116.9	800	4.62	34.145	1.77	27.062	100.8	1.703				
754A	5.01	34.103	2.28		86.	0.00	34.8	108.1	1000	3.58	34.339	1.19	27.325	75.9	1.895				
846	4.26	34.192	1.24	2.87	106.	0.00	41.1	93.5	1200	2.96	34.444	1.19	27.467	62.5	2.049				
954A	3.77	34.303	1.19	2.75	122.	0.01	41.0	80.4	1500	2.49	34.519	1.42	27.568	52.8	2.247				
1154A	3.06	34.426	1.17	2.94	142.	0.01	41.9	64.6	1750	2.12	34.584	1.85	27.650	45.1	2.390				
1355A	2.71	34.465	1.30	2.93	151.		41.8	57.2	2000	1.86	34.622	2.34	27.701	40.3	2.517				
1554A	2.41	34.531	1.48	2.87	158.	0.00	42.5	51.3	2250	1.76	34.638	2.46	27.721	38.4	2.636				
1754A	2.11	34.583	1.86	2.75	161.	0.00	41.5	45.0	2500	1.69	34.650	2.60	27.736	36.9	2.752				
1954A	1.88	34.616	2.28	2.68	162.	0.00	40.7	40.8	2750	1.59	34.665	3.01	27.755	35.1	2.866				
2154A	1.81	34.631	2.47	2.53	161.	0.00	40.3	39.2	3000	1.55	34.674	3.17	27.766	34.2	2.976				
2353A	1.72	34.643	2.45	2.53	161.	0.00	41.0	37.6	3250	1.53	34.679	3.24	27.771	33.6	3.086				
2551A	1.681	34.651	2.68	2.48	160.	0.00	39.3	36.7	3500	1.50	34.684	3.40	27.778	33.0	3.196				
2752A	1.593	34.664	3.01	2.43	157.	0.00	40.8	35.1	3750	1.48	34.690	3.52	27.784	32.5	3.306				
2951A	1.557	34.672	3.16	2.39	157.	0.00	37.7	34.3	4000	1.48	34.694	3.62	27.787	32.2	3.417				
3150A	1.546	34.676	3.20	2.51	156.	0.00	37.9	33.9	4250	1.48	34.697	3.62	27.790	31.9	3.528				
3348A	1.513	34.680	3.30	2.43	155.	0.00	37.3	33.3											
3547A	1.496	34.684	3.43	2.43	153.	0.00	36.8	32.9											
3746A	1.483	34.689	3.52	2.43	152.	0.00	36.7	32.5											
3945A	1.485	34.692	3.59	2.42	151.	0.00	36.5	32.2											
4143A	1.482	34.695	3.66	2.41	149.	0.00	36.9	32.0											
4391A	1.478	34.698	3.47	2.36	146.	0.00	36.2	31.7											

RV THOMAS WASHINGTON

INDOPAC LEG II

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	LATITUDE	LONGITUDE	MO/DAY/YR		MESSENGER	TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES				
	22 31.2N	143 15. E	5/12/76		0645	GMT	2281M	110	6KT	1					
Z	T	S	O2	P04	S103	N02	N03	DT	Z	T	S	O2	SIGT	DT	DD
1	27.77	34.886	4.69	0.03	2.	0.2	544.3	0	27.77	34.886	4.69	22.405	544.3	0.000	
22	27.33		4.75		2.	0.2		10	27.58	34.939	4.72	22.505	534.7	0.054	
46	26.80	34.987	4.81	0.05	2.	0.2	507.2	20	27.37	34.978	4.74	22.603	525.3	0.107	
72	26.39	34.943	4.84	0.08	2.	0.2	498.0	30	27.15	34.993	4.77	22.687	517.3	0.159	
91	25.53	34.844	4.87	0.05	2.	0.2	479.5	50	26.76	34.985	4.82	22.805	506.1	0.262	
121	24.13	34.863	4.76	0.09	3.	0.2	437.7	75	26.27	34.925	4.85	22.914	495.6	0.388	
152	22.56		4.57	0.07	3.	0.3		100	25.12	34.840	4.85	23.206	467.7	0.509	
181	21.16	34.859	4.73	0.12	3.	0.8	357.4	125	23.93	34.865	4.73	23.582	431.8	0.623	
221	19.62	34.829	4.75	0.23	4.	0.8	320.5	150	22.66	34.866	4.58	23.950	396.7	0.728	
261	18.02	34.807	4.60	0.27	5.	3.6	283.5	200	20.40	34.844	4.74	24.556	359.0	0.915	
301	16.91	34.768	4.68	0.36	6.	4.9	260.9	250	18.44	34.813	4.64	25.039	293.0	1.077	
351	16.21		4.64	0.52	8.	4.8		300	16.93	34.769	4.68	25.372	261.3	1.220	
401	15.13	34.644	4.50	0.73	11.	6.4	231.3	400	15.16	34.649	4.50	25.685	231.5	1.477	
460	13.02	34.479	4.32	1.10	18.	12.8	201.2	500	12.03	34.406	4.20	26.141	188.2	1.698	
520	11.53	34.368	4.10	1.62	24.	14.6	182.0	600	8.35	34.199	3.08	26.614	143.4	1.876	
600	8.35	34.199	3.08	2.19	46.	25.3	143.4	700	6.36	34.217	2.33	26.910	115.3	2.015	
699	6.37	34.216	2.33	2.53	76.	32.2	115.5	800	5.62	34.230	1.95	27.014	105.4	2.135	
822	5.53	34.232	1.89	2.78	87.	35.1	104.2	1000	4.27	34.362	1.36	27.272	80.9	2.341	
995	4.30	34.358	1.35	2.82	110.	39.0	81.4	1200	3.41	34.493	1.57	27.456	63.5	2.504	
1193	3.44	34.479	1.56	2.73	129.	39.2	64.0	1500	2.46	34.563	1.92	27.606	49.3	2.700	
1391	2.67	34.543	1.77	2.69	145.	41.0	52.5	1750	2.16	34.599	2.33	27.659	44.2	2.837	
1589	2.35	34.574	2.05	2.51	150.	40.5	47.6	2000	1.97	34.624	2.59	27.694	40.6	2.965	
1787	2.12	34.603	2.39	2.27	151.	39.8	43.6								
2034	1.95	34.626	2.61	2.56	152.	39.3	40.6								

11 D						INDOPAC LEG II						12					
LATITUDE	LONGITUDE	MO/DAY/YR	START TIME			LATITUDE	LONGITUDE	MO/DAY/YR	START TIME			LATITUDE	LONGITUDE	MO/DAY/YR	START TIME		
26 00.5N	143 14. E	05/11/76	0615 GMT			22 31.2N	143 15. E	05/12/76	0540 GMT								
Z	T	S	SIGMA T	DT	DD	Z	T	S	SIGMA T	DT	DD	Z	T	S	SIGMA T	DT	DD
0	25.16	34.70	25.675	422.9	0.000	0	27.77	34.89	22.406	544.0	0.000	0	27.77	34.89	22.406	544.0	0.000
10	23.12	34.70	25.693	421.3	0.042	10	27.65	34.91	22.462	538.8	0.054	10	27.65	34.91	22.462	538.8	0.054
20	22.55	34.77	25.909	400.7	0.083	20	27.44	34.96	22.568	528.7	0.108	20	27.44	34.96	22.568	528.7	0.108
30	21.37	34.82	24.276	365.7	0.122	30	27.16	34.99	22.680	518.0	0.160	30	27.16	34.99	22.680	518.0	0.160
40	20.12	34.82	24.612	333.6	0.157	40	26.84	34.99	22.783	508.2	0.211	40	26.84	34.99	22.783	508.2	0.211
50	19.55	34.82	24.762	319.4	0.190	50	26.66	34.97	22.825	504.2	0.262	50	26.66	34.97	22.825	504.2	0.262
75	18.51	34.80	25.011	295.6	0.267	75	25.94	34.90	22.998	487.6	0.387	75	25.94	34.90	22.998	487.6	0.387
100	17.99	34.79	25.133	284.1	0.340	100	24.77	34.85	23.319	457.0	0.506	100	24.77	34.85	23.319	457.0	0.506
125	17.44	34.78	25.259	272.0	0.411	125	23.33	34.88	23.768	414.1	0.616	125	23.33	34.88	23.768	414.1	0.616
150	16.96	34.76	25.358	262.6	0.479	150	22.06	34.90	24.140	378.6	0.716	150	22.06	34.90	24.140	378.6	0.716
175	16.76	34.75	25.398	258.8	0.545	175	21.18	34.86	24.358	357.8	0.810	175	21.18	34.86	24.358	357.8	0.810
200	16.43	34.75	25.475	251.5	0.610	200	20.26	34.83	24.583	336.4	0.898	200	20.26	34.83	24.583	336.4	0.898
225	16.14	34.73	25.527	246.6	0.674	225	19.36	34.83	24.818	314.0	0.981	225	19.36	34.83	24.818	314.0	0.981
250	15.83	34.71	25.582	241.3	0.737	250	18.49	34.83	25.039	292.9	1.059	250	18.49	34.83	25.039	292.9	1.059
275	15.34	34.67	25.661	233.8	0.798	275	17.65	34.79	25.216	276.1	1.133	275	17.65	34.79	25.216	276.1	1.133
300	14.74	34.62	25.755	224.9	0.858	300	17.12	34.77	25.328	265.5	1.203	300	17.12	34.77	25.328	265.5	1.203
350	13.79	34.55	25.902	210.9	0.971	350	16.20	34.72	25.505	248.6	1.336	350	16.20	34.72	25.505	248.6	1.336
400	12.65	34.46	26.064	195.6	1.078	400	15.09	34.63	25.686	231.4	1.462	400	15.09	34.63	25.686	231.4	1.462
450	11.73	34.39	26.186	183.9	1.178	450	13.10	34.48	25.989	202.6	1.576	450	13.10	34.48	25.989	202.6	1.576
500	10.10	34.28	26.393	164.3	1.270	500	11.84	34.38	26.158	186.6	1.679	500	11.84	34.38	26.158	186.6	1.679
550	8.54	34.17	26.562	148.3	1.354	550	10.20	34.26	26.361	167.4	1.774	550	10.20	34.26	26.361	167.4	1.774
600	7.46	34.12	26.683	136.8	1.430	600	8.20	34.17	26.614	143.4	1.857	600	8.20	34.17	26.614	143.4	1.857
650	6.64	34.08	26.765	129.0	1.501	650	6.89	34.17	26.802	125.5	1.929	650	6.89	34.17	26.802	125.5	1.929
700	5.43	34.07	26.911	115.2	1.566	700	6.18	34.21	26.928	113.6	1.994	700	6.18	34.21	26.928	113.6	1.994
750	5.06	34.10	26.978	108.8	1.627	750	5.84	34.22	26.979	108.7	2.054	750	5.84	34.22	26.979	108.7	2.054
800	4.54	34.16	27.084	98.8	1.683	800	5.57	34.22	27.012	105.6	2.113	800	5.57	34.22	27.012	105.6	2.113
850	4.27	34.20	27.145	93.0	1.734	850	5.30	34.24	27.060	101.0	2.169	850	5.30	34.24	27.060	101.0	2.169
900	3.99	34.25	27.214	86.5	1.783	900	4.84	34.28	27.145	92.9	2.223	900	4.84	34.28	27.145	92.9	2.223
950	3.79	34.30	27.274	80.8	1.829	950	4.51	34.32	27.214	86.5	2.272	950	4.51	34.32	27.214	86.5	2.272
1000	3.65	34.33	27.311	77.2	1.873	1000	4.21	34.36	27.278	80.4	2.319	1000	4.21	34.36	27.278	80.4	2.319
1100	3.19	34.41	27.419	67.0	1.953	1100	3.68	34.44	27.396	69.2	2.403	1100	3.68	34.44	27.396	69.2	2.403
1200	2.96	34.45	27.472	62.0	2.025	1200	3.30	34.48	27.465	62.7	2.478	1200	3.30	34.48	27.465	62.7	2.478
1300	2.82	34.47	27.501	59.3	2.094	1300	2.87	34.52	27.536	55.9	2.546	1300	2.87	34.52	27.536	55.9	2.546
1400	2.66	34.50	27.539	55.7	2.159	1400	2.61	34.54	27.575	52.2	2.608	1400	2.61	34.54	27.575	52.2	2.608
1500	2.45	34.53	27.581	51.7	2.221	1500	2.49	34.56	27.601	49.7	2.667	1500	2.49	34.56	27.601	49.7	2.667
1600	2.315	34.555	27.612	48.7	2.279	1600	2.309	34.581	27.633	46.7	2.724	1600	2.309	34.581	27.633	46.7	2.724
1700	2.181	34.576	27.640	46.1	2.335	1700	2.217	34.598	27.654	44.7	2.778	1700	2.217	34.598	27.654	44.7	2.778
1800	2.064	34.595	27.664	43.8	2.388	1800	2.056	34.618	27.683	42.0	2.829	1800	2.056	34.618	27.683	42.0	2.829
1900	1.900	34.620	27.697	40.7	2.436	1900	1.954	34.632	27.703	40.1	2.879	1900	1.954	34.632	27.703	40.1	2.879
2000	1.868	34.625	27.704	40.0	2.487	2000	1.945	34.635	27.706	39.8	2.927	2000	1.945	34.635	27.706	39.8	2.927
2100	1.809	34.634	27.715	38.9	2.535	2037	1.938	34.639	27.709	39.5	2.945						
2200	1.762	34.642	27.725	38.0	2.581												
2300	1.738	34.647	27.731	37.4	2.628												
2400	1.715	34.651	27.736	37.0	2.674												
2500	1.692	34.656	27.742	36.4	2.719												
2600	1.662	34.661	27.748	35.8	2.765												
2700	1.626	34.667	27.756	35.1	2.810												
2800	1.593	34.672	27.762	34.5	2.854												
2900	1.576	34.674	27.765	34.2	2.898												
3000	1.568	34.676	27.767	34.0	2.942												
3100	1.557	34.679	27.770	33.7	2.986												
3200	1.539	34.682	27.774	33.4	3.030												
3300	1.521	34.684	27.777	33.1	3.074												
3400	1.501	34.687	27.781	32.7	3.117												
3500	1.486	34.690	27.784	32.4	3.161												
3600	1.485	34.691	27.785	32.3	3.204												
3700	1.487	34.691	27.785	32.3	3.248												
3800	1.483	34.692	27.786	32.2	3.291												
3900	1.481	34.694	27.788	32.1	3.335												
4000	1.469	34.695	27.789	31.9	3.379												
4100	1.474	34.696	27.790	31.9	3.423												
4200	1.475	34.697	27.791	31.8	3.468												
4300	1.477	34.697	27.790	31.8	3.512												
4400	1.479	34.697	27.790	31.8	3.557												
4418	1.481	34.697	27.790	31.8	3.565												

RV THOMAS WASHINGTON

INDOPAC LEG II

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LATITUDE		LONGITUDE		MO/DAY/YR		MESSENGER TIME		BOTTOM		WIND		SPEED		WEATHER		DOMINANT WAVES	
22 30. N		144 11.5E		5/12/76		1515 1851		3877M		110		10KT		1		110 5 6	
Z	T	S	Q2	P04	SI03	NO2	NO3	DT	Z	T	S	Q2	SI0T	DT	DD		
0	27.58	34.89	D	4.67	0.05	2.	0.1	538.1	0	27.58	34.89	4.67	22.470	538.1	0.000		
10	27.52	34.90	D	4.70	0.03	2.	0.1	535.5	10	27.52	34.90	4.70	22.497	535.5	0.054		
30	26.97	34.99	D	4.79	0.07	2.	0.1	512.1	20	27.26	34.94	4.75	22.613	524.4	0.107		
45	26.73	35.00	D	4.79	0.03	2.	0.1	504.1	30	26.97	34.99	4.79	22.741	512.1	0.159		
59	26.39	35.00	D	4.84	0.03	2.	0.1	493.9	50	26.62	35.00	4.81	22.861	500.7	0.260		
80	25.68	34.97	D	4.84	0.00	2.	0.1	474.9	75	25.87	34.98	4.84	23.021	479.7	0.363		
99	24.89	34.91	D	4.82	0.00	2.	0.2	456.1	100	24.86	34.91	4.82	23.335	455.4	0.501		
119	24.27	34.91	D	4.75	0.02	2.	0.2	438.3	125	23.92	34.92	4.71	23.626	427.7	0.613		
138	23.08	34.95	D	4.62	0.04	2.	0.3	402.1	150	22.32	34.95	4.56	24.114	381.1	0.715		
167	21.36	34.95	D	4.49	0.18	2.	1.3	356.0	200	20.19	34.93	4.46	24.601	327.0	0.895		
197	20.34	34.94	D	4.46	0.15	3.	2.0	330.4	250	18.12	34.84	4.62	25.141	283.3	1.052		
232	18.63	34.87	D	4.55	0.23	3.	3.1	293.4	300	16.97	34.77	4.72	25.364	262.1	1.193		
271	17.66	34.81	D	4.69	0.32	3.	3.9	274.9	400	14.54	34.61	4.45	25.791	221.5	1.445		
315	16.62	34.75	D	4.74	0.41	6.	5.3	255.7	500	11.61	34.38	4.04	26.197	162.9	1.659		
378	15.13	34.66	D	4.51	0.59	9.	8.0	230.1	600	8.58	34.20	3.33	26.581	146.5	1.855		
476	12.36	34.43	D	4.18	0.98	18.	14.2	192.4	700	6.34	34.16	2.46	26.869	119.2	1.978		
568	9.52	34.25	D	3.57	1.53	34.	22.1	157.2	800	5.25	34.24	1.63	27.064	100.7	2.097		
664	6.95	34.15	D	2.82	2.14	59.	29.7	127.8	1000	4.00	34.41	1.44	27.341	74.4	2.291		
780	5.41	34.22	D	1.74	2.51	84.	36.6	103.7	1200	3.25	34.48	1.50	27.466	62.6	2.445		
891A	4.67	34.315		1.38	2.70	100.	39.5	82.5	1500	2.61	34.56	1.96	27.591	50.7	2.641		
980	4.10	34.40	D	1.44	2.88	114.	39.2	76.3	1750	2.27	34.60	2.30	27.651	45.0	2.783		
1084A	3.62	34.446		1.45	2.77	124.	40.6	68.2	2000	2.07	34.62	2.47	27.680	42.3	2.915		
1277A	3.06	34.490		1.57	2.94	137.	40.9	59.8	2250	1.88	34.63	2.67	27.708	39.5	3.040		
1470A	2.66	34.553		1.91	2.82	144.	39.7	51.7	2500	1.79	34.65	2.80	27.727	37.8	3.160		
1662A	2.37	34.590		2.21	2.72	147.	39.2	46.5	2750	1.73	34.66	2.88	27.739	36.7	3.276		
1854A	2.18	34.608		2.39	2.69	150.	39.7	43.7	3000	1.66	34.66	3.01	27.749	35.8	3.395		
2045A	2.042	34.618		2.49	2.69	152.	37.9	41.9	3250	1.57	34.67	3.23	27.762	34.6	3.510		
2237A	1.892	34.632		2.66	2.64	154.	38.6	39.7	3500	1.52	34.68	3.33	27.775	33.4	3.622		
2432A	1.803	34.644		2.76	2.72	154.	36.2	38.1	3750	1.48	34.69	3.54	27.783	32.6	3.733		
2627A	1.761	34.651		2.86	2.64	155.	37.7	37.3									
2822A	1.706	34.658		2.90	2.59	156.	37.8	36.4									
3019A	1.659	34.662		3.03	2.54	155.	36.5	35.7									
3219A	1.574	34.681	U	3.22	2.54	154.	35.5										
3417A	1.532	34.677		3.29	2.51	153.	36.6	33.7									
3618A	1.496	34.682		3.41	2.52	152.	37.0	33.1									
3810A	1.475	34.690		3.59	2.48	150.	36.5	32.3									
3861B	1.48	34.686		3.62	2.50	150.	36.1	32.7									
3864B	1.43	34.686		3.60	2.50	149.	35.9										

RV THOMAS WASHINGTON

INDOPAC LEG II

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LATITUDE		LONGITUDE		MO/DAY/YR		MESSENGER		TIME		BOTTOM		WIND		SPEED		WEATHER		DOMINANT WAVES	
22 29.9N		145 02. E		5/13/76		0122 0408		GAT		4517M		100		8KT		0		090 5	
Z	T	S	Q2	P04	SI03	NO2	NO3	DT	Z	T	S	Q2	SI0T	DT	DD				
0	27.22	34.630	4.73	0.03	1.	0.00	0.1	545.7	0	27.22	34.630	4.73	22.391	545.7	0.000				
15	26.72	34.613	4.76	0.05	1.	0.01	0.1	531.7	10	26.93	34.619	4.75	22.475	537.6	0.054				
31	25.72	34.854	5.03	0.07	1.	0.00	0.1	484.4	20	26.47	34.884	4.79	22.669	519.1	0.107				
45	24.30	34.828	5.03	0.06	2.	0.00	0.1	445.1	30	25.80	34.837	4.87	22.995	487.9	0.158				
66	23.12	34.848	5.11	0.04	2.	0.00	0.1	410.6	50	23.95	34.830	5.06	23.549	435.0	0.250				
86	22.38	34.855	5.09	0.03	2.	0.00	0.1	389.9	75	22.77	34.852	5.10	23.909	400.6	0.355				
106	21.57	34.856	5.02	0.05	2.	0.00	0.1	368.3	100	21.61	34.854	5.04	24.180	374.8	0.453				
131	20.61	34.887	4.60	0.15	2.	0.10	1.3	341.2	125	20.85	34.882	4.69	24.465	347.6	0.544				
161	19.18	34.809	4.89	0.12	3.	0.04	1.0	311.1	150	19.69	34.842	4.74	24.741	321.4	0.629				
202	17.99	34.758	5.02	0.16	4.	0.02	1.7	286.4	200	18.03	34.759	5.01	25.099	287.3	0.764				
252	17.22	34.771	4.75	0.29	5.	0.00	4.4	267.7	250	17.25	34.771	4.76	25.298	268.3	0.927				
311	16.01	34.701	4.63	0.43	7.	0.00	6.5	245.9	300	16.25	34.719	4.65	25.492	249.9	1.061				
371	14.60	34.589	4.46	0.62	11.	0.04	8.8	224.3	400	13.84	34.526	4.33	25.874	213.6	1.303				
430	13.00	34.458	4.20	0.89	15.	0.01	13.1	202.3	500	10.87	34.312	4.08	26.284	174.7	1.508				
509	10.58	34.294	4.05	1.28	26.	0.00	17.6	171.1	600	7.77	34.146	3.18	26.658	139.2	1.675				
589	8.03	34.152	3.28	1.84	45.	0.01	26.1	142.3	700	5.99	34.152	2.32	26.905	115.7	1.812				
679	6.29	34.140	2.51	2.25	68.	0.05	32.3	120.2	800	4.90	34.231	1.60	27.099	97.3	1.928				
778	5.11	34.211	1.71	2.65	89.	0.01	37.3	101.1	1000	3.79	34.414	1.41	27.363	72.3	2.114				
868A	4.36	34.293	1.39	2.77	107.		37.6	87.0	1200	3.27	34.500	1.67	27.483	61.0	2.265				
998	3.80	34.412	1.41	2.85	119.		40.7	72.5	1500	2.65	34.561	2.02	27.589	51.0	2.460				
1067A	3.64	34.449	1.49	2.63	123.		39.3	68.2	1750	2.29	34.594	2.25	27.644	45.7	2.603				
1267A	3.09	34.518	1.76	2.91	134.		38.7	57.9	2000	2.02	34.617	2.51	27.684	41.8	2.734				
1466A	2.70	34.555	1.99	2.61	140.		39.7	51.8	2250	1.88	34.634	2.66	27.709	39.5	2.859				
1666A	2.41	34.584	2.16	2.70	145.		39.3	47.3	2500	1.75	34.644	2.85	27.727	37.8	2.979				
1865A	2.15	34.603	2.38	2.49	149.		38.8	43.8	2750	1.68	34.661	2.95	27.746	36.0	3.095				
2065A	1.97	34.622	2.57	2.47	152.		38.4	41.0	3000	1.62	34.668	3.10	27.757	35.0	3.209				
2263A	1.88	34.634	2.67	2.60	153.		38.3	39.4	3250	1.56	34.675	3.24	27.766	34.1	3.322				
2464A	1.77	34.640	2.83	2.55			38.0	38.2	3500	1.52	34.677	3.33	27.771	33.7	3.434				
2662A	1.70	34.659	2.91	2.61	155.		37.9	36.2	3750	1.49	34.682	3.46	27.779	32.9	3.546				
2861A	1.66	34.662	3.01	2.46	155.		37.7	35.7	4000	1.48	34.688	3.58	27.783	32.5	3.657				
3062A	1.60	34.670	3.14	2.38	155.		37.1	34.7	4250	1.46	34.691	3.72	27.786	32.2	3.769				
3261A	1.56	34.675	3.24	2.54	154.		36.8	34.0	4500	1.46	34.695	3.80	27.790	31.8	3.881				
3460A	1.53	34.675	3.31	2.55	154.		36.8	33.8											
3661A	1.50	34.682	3.43	2.54	152.		36.1	33.1											
3859A	1.485	34.687	3.50	2.48	151.		35.9	32.6											
4059A	1.471	34.688	3.61	2.52	150.		35.6	32.4											
4258A	1.464	34.691	3.72	2.48	148.		34.8	32.2											
4458A	1.458	34.695	3.79	2.46	146.		34.4	31.8											

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INDOPAC LEG II

14 F2

LATITUDE		LONGITUDE	MO/DAY/YR		START TIME	LATITUDE		LONGITUDE	MO/DAY/YR		START TIME
22 30. N		144 11.5E	05/12/76		1342 GMT	22 29.9N		144 02. E	05/13/76		0000 GMT
Z	T	S	SIGMA T	DT	DD	Z	T	S	SIGMA T	DT	DD
0	27.54	34.90	22.490	536.1	0.000	0	26.85	34.62	22.501	535.1	0.000
10	27.54	34.90	22.490	536.1	0.054	10	26.62	34.65	22.597	526.0	0.053
20	27.24	34.95	22.625	523.3	0.107	20	26.09	34.81	22.884	498.5	0.104
30	26.83	35.01	22.801	506.4	0.158	30	25.56	34.89	23.100	477.1	0.153
40	26.60	35.01	22.874	499.5	0.205	40	24.86	34.88	23.314	457.4	0.200
50	26.37	35.01	22.946	492.5	0.258	50	24.36	34.84	23.472	442.3	0.245
60	25.62	34.98	23.157	472.4	0.380	60	23.73	34.88	23.941	397.6	0.321
75	24.87	34.94	23.341	454.0	0.496	75	21.95	34.90	24.272	366.0	0.447
100	24.87	34.94	23.341	454.0	0.496	100	21.95	34.90	24.272	366.0	0.447
125	23.79	34.91	23.656	424.8	0.608	125	20.65	34.94	24.562	338.5	0.536
150	22.36	34.98	24.121	380.4	0.709	150	19.24	34.82	24.831	312.7	0.619
175	20.98	34.96	24.488	345.4	0.802	175	18.26	34.77	25.051	291.8	0.696
200	20.24	34.94	24.672	327.9	0.888	200	17.85	34.79	25.167	280.8	0.769
225	19.12	34.90	24.935	303.0	0.968	225	17.17	34.77	25.316	266.6	0.839
250	18.10	34.85	25.136	283.7	1.044	250	16.63	34.75	25.428	255.9	0.906
275	17.54	34.81	25.258	272.4	1.115	275	16.19	34.72	25.508	248.4	0.971
300	17.09	34.78	25.343	264.1	1.185	300	15.70	34.68	25.588	240.7	1.035
350	16.07	34.73	25.543	245.1	1.317	350	14.54	34.58	25.767	223.7	1.155
400	14.88	34.63	25.732	227.1	1.441	400	13.20	34.49	25.954	205.5	1.268
450	13.10	34.48	25.989	202.6	1.554	450	11.88	34.37	26.143	188.1	1.372
500	11.62	34.38	26.199	182.7	1.656	500	10.44	34.28	26.335	169.8	1.467
550	10.06	34.27	26.392	164.4	1.749	550	8.90	34.17	26.505	153.6	1.553
600	8.60	34.21	26.584	146.2	1.832	600	7.62	34.14	26.676	137.5	1.631
650	7.47	34.15	26.705	134.7	1.908	650	6.68	34.13	26.799	125.8	1.701
700	6.51	34.14	26.830	122.9	1.977	700	5.91	34.16	26.923	114.1	1.766
750	5.80	34.18	26.952	111.3	2.040	750	5.18	34.19	27.055	103.4	1.825
800	5.31	34.22	27.043	102.6	2.099	800	5.00	34.26	27.111	96.2	1.879
850	4.97	34.27	27.123	95.1	2.153	850	4.61	34.30	27.187	89.0	1.929
900	4.65	34.31	27.190	88.7	2.203	900	4.15	34.33	27.260	82.1	1.976
950	4.33	34.38	27.281	80.1	2.250	950	4.04	34.37	27.304	78.0	2.021
1000	4.03	34.41	27.336	74.8	2.293	1000	3.73	34.39	27.351	73.4	2.063
1100	3.62	34.45	27.410	67.9	2.374	1100	3.55	34.47	27.432	65.7	2.141
1200	3.26	34.48	27.468	62.3	2.448	1200	3.20	34.51	27.498	59.5	2.212
1300	3.02	34.51	27.515	57.9	2.517	1300	2.95	34.53	27.537	55.8	2.279
1400	2.79	34.54	27.559	53.7	2.581	1400	2.80	34.55	27.566	53.0	2.342
1500	2.61	34.56	27.591	50.7	2.642	1500	2.66	34.56	27.587	51.1	2.403
1600	2.489	34.575	27.613	48.6	2.701	1600	2.491	34.580	27.617	48.2	2.461
1700	2.362	34.592	27.638	46.3	2.757	1700	2.369	34.595	27.639	46.1	2.518
1800	2.279	34.603	27.653	44.8	2.812	1800	2.234	34.605	27.659	44.3	2.572
1900	2.159	34.613	27.671	43.1	2.865	1900	2.132	34.612	27.673	43.0	2.624
2000	2.100	34.620	27.681	42.1	2.917	2000	2.006	34.626	27.694	41.0	2.675
2100	2.012	34.629	27.696	40.6	2.967	2100	1.938	34.633	27.705	39.9	2.725
2200	1.940	34.635	27.706	39.8	3.017	2200	1.879	34.640	27.715	39.0	2.773
2300	1.877	34.641	27.716	38.9	3.066	2300	1.843	34.644	27.721	38.4	2.821
2400	1.846	34.645	27.721	38.4	3.114	2400	1.795	34.650	27.729	37.6	2.868
2500	1.798	34.651	27.730	37.6	3.162	2500	1.755	34.655	27.736	36.9	2.915
2600	1.769	34.656	27.736	37.0	3.209	2600	1.723	34.659	27.742	36.4	2.961
2700	1.739	34.658	27.740	36.6	3.256	2700	1.701	34.662	27.746	36.0	3.007
2800	1.714	34.662	27.745	36.1	3.302	2800	1.673	34.666	27.751	35.5	3.053
2900	1.690	34.665	27.749	35.7	3.348	2900	1.651	34.670	27.756	35.1	3.098
3000	1.657	34.666	27.752	35.4	3.395	3000	1.620	34.672	27.760	34.7	3.144
3100	1.611	34.671	27.760	34.7	3.440	3100	1.588	34.675	27.765	34.2	3.189
3200	1.572	34.675	27.766	34.1	3.485	3200	1.571	34.676	27.767	34.0	3.233
3300	1.542	34.678	27.771	33.7	3.530	3300	1.555	34.679	27.770	33.7	3.278
3400	1.523	34.680	27.774	33.4	3.574	3400	1.541	34.679	27.771	33.6	3.322
3500	1.509	34.682	27.776	33.2	3.618	3500	1.530	34.680	27.773	33.5	3.367
3600	1.489	34.684	27.779	32.9	3.662	3600	1.519	34.684	27.777	33.1	3.412
3700	1.474	34.685	27.781	32.7	3.706	3700	1.495	34.685	27.780	32.8	3.456
3800	1.475	34.686	27.782	32.6	3.751	3800	1.493	34.685	27.780	32.8	3.500
3875	1.474	34.686	27.782	32.6	3.784	3900	1.483	34.686	27.781	32.7	3.545
						4000	1.477	34.687	27.783	32.6	3.590
						4100	1.468	34.688	27.784	32.4	3.634
						4200	1.463	34.688	27.784	32.4	3.679
						4300	1.460	34.686	27.783	32.5	3.724
						4400	1.464	34.683	27.780	32.8	3.770
						4484	1.463	34.682	27.780	32.9	3.800

RV THOMAS WASHINGTON

INDOPAC LEG II

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LATITUDE		LONGITUDE		MO/DAY/YR		MESSENGER		TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES		
22 28. N		145 54. E		5/13/76		1000	1700	GMT	7526M	110	SKT	1			
Z	T	S	Q2	P04	S103	N02	N03	DT	Z	T	S	Q2	S103	DT	DD
0	26.83	34.828	4.75	0.08	2.		0.1	519.5	0	26.83	34.828	4.75	22.664	519.5	0.000
10	26.81	34.822	4.75	0.07	2.		0.1	519.4	10	26.81	34.822	4.75	22.666	519.4	0.052
20	26.65	34.837	4.84	0.04	2.		0.1	483.5	20	26.17	34.829	4.80	22.871	499.7	0.103
50	25.84	34.856	5.05	0.04	2.		0.1	424.5	30	25.31	34.839	4.88	23.148	473.2	0.152
80	21.98	34.871	4.93	0.05	2.		0.1	378.1	50	23.64	34.856	5.05	23.659	424.5	0.242
110	20.57	34.873	4.69	0.07	3.		0.7	341.2	75	22.22	34.870	4.95	24.079	364.4	0.344
140	19.04	34.804	4.91	0.12	3.		1.0	308.1	100	21.03	34.877	4.75	24.412	352.7	0.436
170	18.21	34.755	5.17	0.13	3.		1.0	291.3	125	19.77	34.840	4.77	24.720	323.3	0.522
200	17.82	34.757	4.97	0.15	4.		2.0	282.3	150	18.70	34.784	5.02	24.952	301.3	0.601
249	16.63	34.742	4.80	0.33	6.		4.5	256.5	200	17.82	34.757	4.97	25.149	262.5	0.750
350	14.99	34.634	4.53	0.60	11.		8.7	229.1	250	16.61	34.743	4.80	25.426	256.2	0.888
449	12.09	34.411	4.28	1.04	20.		14.1	188.9	300	15.82	34.707	4.66	25.842	241.3	1.017
548	9.06	34.192	3.79	1.61	35.		22.0	154.4	400	13.61	34.526	4.42	25.920	209.2	1.252
648	6.63	34.114	2.75	2.24	60.		31.5	126.3	500	10.50	34.287	4.08	26.329	170.3	1.453
747	5.15	34.173	1.72	2.70	85.		37.5	104.4	600	7.70	34.135	3.28	26.660	139.0	1.618
847	4.50		1.37	2.69	101.		39.9		700	5.74	34.134	2.17	26.922	114.1	1.754
995	3.75	34.402	1.34	2.99	119.		41.0	72.7	800	4.75	34.236	1.47	27.120	95.3	1.867
1146	3.21	34.454	1.36	2.98	132.		41.5	63.8	1000	3.75	34.405	1.34	27.362	72.4	2.051
1296	2.78	34.499	1.50	2.98	143.		41.1	56.7	1200	3.03	34.472	1.40	27.462	61.0	2.201
1408A	2.62	34.525	1.65		147.		40.9	53.4	1500	2.45	34.557	1.94	27.602	49.7	2.332
1493	2.46	34.555	1.93	2.92	145.		40.0	49.9	1750	2.20	34.588	2.17	27.647	45.3	2.532
1699A	2.25	34.581	2.10	2.75	151.		39.5	46.2	2000	1.97	34.618	2.51	27.689	41.4	2.662
1990A	1.98	34.616	2.50	2.76	151.		39.1	41.5	2250	1.82	34.640	2.67	27.718	38.6	2.764
2280A	1.81	34.642	2.68	2.64	154.		37.0	38.3	2500	1.72	34.652	2.83	27.736	36.9	2.901
2571A	1.70	34.655	2.88	2.59	155.		36.7	36.5	2750	1.65	34.662	3.00	27.749	35.7	3.015
2860A	1.63	34.666	3.07	2.58	155.		37.3	35.2	3000	1.59	34.673	3.13	27.762	34.5	3.128
3149A	1.56	34.679	3.19	2.59	155.		36.2	33.7	3250	1.55	34.680	3.24	27.771	33.6	3.239
3439A	1.53	34.681	3.33	2.47	153.		36.7	33.4	3500	1.53	34.682	3.36	27.774	33.3	3.350
3729A	1.51	34.683	3.45	2.53	151.		34.2U	33.1	3750	1.51	34.684	3.46	27.778	33.0	3.462
4019A	1.48	34.692	3.57	2.34	148.		36.7	32.2	4000	1.48	34.692	3.56	27.786	32.3	3.573
4311A	1.465	34.693	3.67	2.38	147.		35.4	32.0	4250	1.47	34.693	3.65	27.788	32.1	3.685
4601A	1.475	34.695	3.77	2.37	145.		35.3	31.9	4500	1.47	34.695	3.74	27.789	32.0	3.797
4891A	1.486	34.698	3.85	2.40	142.		35.0	31.8	4750	1.48	34.697	3.81	27.790	31.8	3.912
5184A	1.509	34.693	3.91	2.40	142.		35.3	32.3	5000	1.49	34.697	3.88	27.788	32.0	4.028
5477A	1.546	34.698	3.93	2.41	141.		35.6	32.2	5250	1.52	34.698	3.91	27.785	32.3	4.146
5771A	1.584	34.700	3.97	2.43	140.		34.8	32.3	5500	1.55	34.699	3.93	27.786	32.2	4.268
6065A	1.618	34.699	3.98	2.46	139.		34.8	32.6	5750	1.58	34.700	3.97	27.785	32.3	4.392
6360A	1.654	34.699	4.02	2.43	139.		34.4	32.9	6000	1.61	34.700	3.98	27.783	32.6	4.516
6656A	1.701	34.700	4.03	2.40	139.		34.6	33.1	6250	1.64	34.700	4.01	27.780	32.6	4.648
6954A	1.742	34.697	4.01	2.42	139.		34.6	33.7	6500	1.68	34.700	4.02	27.778	33.0	4.781

RV THOMAS WASHINGTON

INDOPAC LEG II

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LATITUDE		LONGITUDE		MO/DAY/YR		MESSENGER		TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES		
22 31.5N		147 30.5E		5/14/76		0424 0825		GMT	5766M	100	SKT	1			
Z	T	S	Q2	P04	S103	N02	N03	DT	Z	T	S	Q2	S103	DT	DD
0	27.00	34.963	4.76	0.03	2.	0.00	0.0	515.0	0	27.00	34.963	4.76	22.711	515.0	0.000
10	26.95	34.961	4.84	0.04	2.	0.03	0.0	513.6	10	26.95	34.961	4.84	22.726	513.6	0.051
20	26.52	34.961	4.78	0.06	2.	0.04	0.0	500.6	20	26.52	34.961	4.78	22.862	500.6	0.102
31	25.65	34.932	4.90	0.04	2.	0.03	0.0	476.7	30	25.75	34.935	4.88	23.084	479.4	0.151
51	22.69	34.882	5.15	0.03	2.	0.02	0.0	396.4	50	22.84	34.882	5.14	23.911	400.4	0.240
76	21.33	34.876	5.02	0.06	2.	0.00	0.2	360.6	75	21.36	34.876	5.03	24.322	361.2	0.335
100	20.21	34.844	5.08	0.05	4.	0.05	3.9	334.1	100	20.21	34.844	5.08	24.607	334.1	0.423
151	18.19	34.820	4.57	0.21	4.	0.05	3.8	286.6	125	19.15	34.830	4.68	24.874	308.7	0.504
201	16.87	34.755	4.75	0.29	5.	0.04	5.2	260.9	150	18.22	34.820	4.68	25.098	287.3	0.580
299	14.56	34.595	4.47	0.62	11.	0.01	10.1	223.1	200	16.89	34.756	4.74	25.372	261.3	0.720
399	12.00	34.389	4.29	0.97	19.	0.00	15.0	188.9	250	15.70	34.682	4.66	25.589	240.7	0.849
546	8.36	34.162	3.44	1.73	42.	0.00	25.6	146.3	300	14.53	34.594	4.47	25.778	222.7	0.969
694	5.65	34.163	1.90	2.60	78.	0.00	37.0	110.8	400	11.97	34.387	4.29	26.138	188.5	1.164
842	4.43	34.291	1.29	2.83	105.	0.02	41.4	87.8	500	9.44	34.214	3.78	26.452	158.7	1.367
990	3.70	34.397	1.24	2.91	122.	0.00	42.5	72.6	600	7.23	34.141	2.86	26.732	132.2	1.522
1189	3.09	34.486	1.53	2.91	136.	0.00	42.4	60.4	700	5.58	34.168	1.86	26.969	109.6	1.652
1397A	2.78	34.555	1.84		139.	0.01	41.6	52.8	800	4.68	34.253	1.39	27.142	93.3	1.762
1398	2.64	34.542	1.84	2.92	143.	0.00	41.7	52.3	1000	3.66	34.403	1.25	27.368	71.9	1.944
1547A	2.59	34.572	2.07	2.71	142.	0.00	41.5	49.6	1200	3.07	34.490	1.55	27.493	60.0	2.092
1696A	2.31	34.593	2.24	2.77	146.	0.00	41.1	45.8	1500	2.61	34.563	1.97	27.593	50.5	2.283
1896A	2.08	34.621	2.42	2.65	150.	0.00	40.8	41.9	1750	2.24	34.603	2.29	27.656	44.6	2.424
2096A	1.94	34.629	2.54	2.58	153.	0.00	40.5	40.3	2000	2.00	34.627	2.48	27.694	40.9	2.553
2295A	1.81	34.644	2.70	2.61	154.	0.00	40.3	38.2	2250	1.84	34.641	2.66	27.718	38.6	2.674
2495A	1.73	34.656	2.82	2.51	155.	0.00	39.7	36.7	2500	1.73	34.657	2.82	27.739	36.7	2.791
2745A	1.66	34.662	2.95	2.49	155.	0.00	39.2	35.7	2750	1.66	34.663	2.95	27.749	35.7	2.906
2994A	1.60	34.669	2.94	2.54	155.	0.00	38.9	34.8	3000	1.60	34.670	3.10	27.759	34.8	3.019
3244A	1.55	34.676	3.24	2.35	155.	0.00	38.5	33.9	3250	1.55	34.677	3.24	27.768	33.9	3.131
3493A	1.51	34.680	3.33		153.	0.00	38.3	33.3	3500	1.51	34.681	3.33	27.775	33.3	3.242
3744A	1.48	34.682	3.45	2.38	152.	0.00	37.8	33.0	3750	1.48	34.683	3.45	27.778	32.9	3.353
3993A	1.47	34.689	3.55	2.39	150.	0.00	37.6	32.4	4000	1.47	34.690	3.55	27.785	32.4	3.464
4242A	1.47	34.691	3.62	2.46	149.	0.00	37.2	32.2	4250	1.47	34.692	3.62	27.786	32.2	3.576
4493A	1.47	34.693	3.68	2.36	147.	0.00	36.7	32.1	4500	1.47	34.694	3.68	27.788	32.1	3.689
4742A	1.487	34.699	3.78	2.40	144.	0.00	36.5	31.7	4750	1.49	34.699	3.78	27.791	31.7	3.803
4991A	1.501	34.696	3.85	2.37	143.	0.01	36.2	32.1	5000	1.50	34.697	3.85	27.788	32.1	3.919
5240A	1.518	34.698	3.94	2.36	142.	0.01	36.2	32.0	5250	1.52	34.699	3.94	27.788	32.0	4.038
5489A	1.546	34.699	3.96	2.33	141.	0.01	36.0	32.1	5500	1.55	34.700	3.96	27.787	32.1	4.159
5689A	1.578	34.698	4.04	2.37	140.	0.01	35.8	32.4							

15 S						INDOPAC LEG II						16 C					
LATITUDE		LONGITUDE		MO/DAY/YR		START TIME		LATITUDE		LONGITUDE		MO/DAY/YR		START TIME			
22 28, N		145 54, E		05/13/76		1623 GMT		22 31, N		147 30, SE		05/14/76		0238 GMT			
Z	T	S	SIGMA T	DT	DD	Z	T	S	SIGMA T	DT	DD	Z	T	S	SIGMA T	DT	DD
0	26.83	34.81	22.651	520.8	0.000	0	26.93	34.95	22.724	513.8	0.000	0	26.93	34.95	22.724	513.8	0.000
10	26.48	34.83	22.776	508.0	0.052	10	26.77	34.94	22.767	509.7	0.051	10	26.77	34.94	22.767	509.7	0.051
20	25.63	34.85	23.056	482.0	0.101	20	26.13	34.94	22.969	490.4	0.101	20	26.13	34.94	22.969	490.4	0.101
30	24.97	34.87	23.273	461.3	0.148	30	24.87	34.88	23.311	457.7	0.149	30	24.87	34.88	23.311	457.7	0.149
40	23.86	34.86	23.598	430.3	0.193	40	23.35	34.87	23.754	415.4	0.193	40	23.35	34.87	23.754	415.4	0.193
50	23.27	34.84	23.755	415.3	0.236	50	22.04	34.86	24.121	380.5	0.233	50	22.04	34.86	24.121	380.5	0.233
75	21.41	34.88	24.310	362.4	0.333	75	20.74	34.86	24.477	346.4	0.324	75	20.74	34.86	24.477	346.4	0.324
100	20.35	34.85	24.574	337.2	0.422	100	19.54	34.84	24.779	317.7	0.408	100	19.54	34.84	24.779	317.7	0.408
125	19.14	34.81	24.859	310.1	0.503	125	18.56	34.83	25.022	294.6	0.485	125	18.56	34.83	25.022	294.6	0.485
150	18.35	34.76	25.021	294.7	0.580	150	17.96	34.80	25.148	282.6	0.559	150	17.96	34.80	25.148	282.6	0.559
175	18.01	34.74	25.090	288.2	0.654	175	17.27	34.77	25.292	268.9	0.629	175	17.27	34.77	25.292	268.9	0.629
200	17.75	34.78	25.184	279.2	0.727	200	16.86	34.75	25.374	261.1	0.697	200	16.86	34.75	25.374	261.1	0.697
225	17.12	34.76	25.320	266.2	0.797	225	16.45	34.74	25.463	252.7	0.762	225	16.45	34.74	25.463	252.7	0.762
250	16.57	34.73	25.427	256.0	0.864	250	16.09	34.72	25.531	246.2	0.827	250	16.09	34.72	25.531	246.2	0.827
275	16.20	34.72	25.505	248.6	0.929	275	15.56	34.68	25.620	237.7	0.889	275	15.56	34.68	25.620	237.7	0.889
300	15.81	34.69	25.571	242.3	0.993	300	15.06	34.64	25.700	230.1	0.950	300	15.06	34.64	25.700	230.1	0.950
350	15.03	34.63	25.699	230.2	1.116	350	13.78	34.53	25.889	212.1	1.065	350	13.78	34.53	25.889	212.1	1.065
400	13.82	34.52	25.873	213.7	1.232	400	12.26	34.40	26.093	192.8	1.171	400	12.26	34.40	26.093	192.8	1.171
450	12.00	34.39	26.135	188.8	1.338	450	11.04	34.33	26.267	176.3	1.268	450	11.04	34.33	26.267	176.3	1.268
500	10.24	34.25	26.346	168.8	1.433	500	9.35	34.20	26.457	158.3	1.357	500	9.35	34.20	26.457	158.3	1.357
550	8.86	34.17	26.512	153.0	1.518	550	7.81	34.14	26.644	140.1	1.436	550	7.81	34.14	26.644	140.1	1.436
600	7.42	34.11	26.681	137.0	1.596	600	6.85	34.13	26.776	128.0	1.508	600	6.85	34.13	26.776	128.0	1.508
650	6.37	34.11	26.825	123.4	1.666	650	6.18	34.14	26.873	118.8	1.574	650	6.18	34.14	26.873	118.8	1.574
700	5.54	34.13	26.945	112.0	1.729	700	5.48	34.18	26.991	107.5	1.635	700	5.48	34.18	26.991	107.5	1.635
750	5.08	34.17	27.031	103.8	1.787	750	5.04	34.22	27.075	99.6	1.691	750	5.04	34.22	27.075	99.6	1.691
800	4.66	34.24	27.134	94.0	1.841	800	4.66	34.25	27.142	93.3	1.743	800	4.66	34.25	27.142	93.3	1.743
850	4.45	34.28	27.189	88.8	1.890	850	4.40	34.30	27.210	86.6	1.792	850	4.40	34.30	27.210	86.6	1.792
900	4.23	34.33	27.252	82.9	1.938	900	4.16	34.36	27.283	79.9	1.838	900	4.16	34.36	27.283	79.9	1.838
950	3.90	34.38	27.326	75.8	1.981	950	3.88	34.38	27.328	75.6	1.881	950	3.88	34.38	27.328	75.6	1.881
1000	3.72	34.41	27.368	71.8	2.022	1000	3.69	34.42	27.379	70.8	1.922	1000	3.69	34.42	27.379	70.8	1.922
1100	3.41	34.45	27.430	65.9	2.100	1100	3.37	34.46	27.442	64.8	1.998	1100	3.37	34.46	27.442	64.8	1.998
1200	3.00	34.48	27.493	60.0	2.171	1200	3.08	34.50	27.501	59.2	2.068	1200	3.08	34.50	27.501	59.2	2.068
1300	2.74	34.50	27.532	56.3	2.237	1300	2.89	34.52	27.534	56.1	2.134	1300	2.89	34.52	27.534	56.1	2.134
1400	2.59	34.53	27.569	52.8	2.300	1400	2.76	34.55	27.570	52.7	2.197	1400	2.76	34.55	27.570	52.7	2.197
1490	2.45	34.56	27.605	49.4	2.353	1500	2.61	34.57	27.599	49.9	2.257	1500	2.61	34.57	27.599	49.9	2.257
						1600	2.432	34.586	27.627	47.3	2.315	1600	2.432	34.586	27.627	47.3	2.315
						1700	2.325	34.596	27.644	45.7	2.370	1700	2.325	34.596	27.644	45.7	2.370
						1800	2.207	34.607	27.662	43.9	2.424	1800	2.207	34.607	27.662	43.9	2.424
						1900	2.084	34.617	27.680	42.2	2.476	1900	2.084	34.617	27.680	42.2	2.476
						2000	1.998	34.625	27.694	41.0	2.526	2000	1.998	34.625	27.694	41.0	2.526
						2100	1.942	34.632	27.703	40.0	2.575	2100	1.942	34.632	27.703	40.0	2.575
						2200	1.881	34.640	27.715	39.0	2.624	2200	1.881	34.640	27.715	39.0	2.624
						2300	1.819	34.648	27.726	37.9	2.672	2300	1.819	34.648	27.726	37.9	2.672
						2400	1.777	34.653	27.733	37.3	2.718	2400	1.777	34.653	27.733	37.3	2.718
						2500	1.743	34.656	27.738	36.8	2.765	2500	1.743	34.656	27.738	36.8	2.765
						2600	1.705	34.660	27.744	36.2	2.811	2600	1.705	34.660	27.744	36.2	2.811
						2700	1.684	34.663	27.748	35.8	2.857	2700	1.684	34.663	27.748	35.8	2.857
						2800	1.655	34.667	27.753	35.3	2.902	2800	1.655	34.667	27.753	35.3	2.902
						2900	1.632	34.670	27.757	34.9	2.947	2900	1.632	34.670	27.757	34.9	2.947
						3000	1.603	34.674	27.763	34.4	2.992	3000	1.603	34.674	27.763	34.4	2.992
						3100	1.584	34.676	27.766	34.1	3.037	3100	1.584	34.676	27.766	34.1	3.037
						3200	1.563	34.679	27.770	33.8	3.081	3200	1.563	34.679	27.770	33.8	3.081
						3300	1.545	34.681	27.773	33.5	3.125	3300	1.545	34.681	27.773	33.5	3.125
						3400	1.529	34.683	27.775	33.2	3.170	3400	1.529	34.683	27.775	33.2	3.170
						3500	1.524	34.685	27.778	33.0	3.214	3500	1.524	34.685	27.778	33.0	3.214
						3600	1.513	34.687	27.780	32.8	3.258	3600	1.513	34.687	27.780	32.8	3.258
						3700	1.502	34.688	27.782	32.7	3.302	3700	1.502	34.688	27.782	32.7	3.302
						3800	1.491	34.691	27.785	32.4	3.346	3800	1.491	34.691	27.785	32.4	3.346
						3900	1.485	34.691	27.785	32.3	3.390	3900	1.485	34.691	27.785	32.3	3.390
						4000	1.484	34.693	27.787	32.2	3.435	4000	1.484	34.693	27.787	32.2	3.435
						4100	1.480	34.694	27.788	32.1	3.479	4100	1.480	34.694	27.788	32.1	3.479
						4200	1.481	34.695	27.789	32.0	3.524	4200	1.481	34.695	27.789	32.0	3.524
						4300	1.479	34.697	27.790	31.8	3.569	4300	1.479	34.697	27.790	31.8	3.569
						4400	1.477	34.697	27.790	31.6	3.613	4400	1.477	34.697	27.790	31.6	3.613
						4500	1.478	34.699	27.792	31.7	3.659	4500	1.478	34.699	27.792	31.7	3.659
						4600	1.479	34.701	27.794	31.5	3.704	4600	1.479	34.701	27.794	31.5	3.704
						4700	1.482	34.701	27.793	31.5	3.749	4700	1.482	34.701	27.793	31.5	3.749
						4800	1.486	34.700	27.792	31.6	3.795	4800	1.486	34.700	27.792	31.6	3.795
						4900	1.493	34.699	27.791	31.8	3.841	4900	1.493	34.699	27.791	31.8	3.841
						5000	1.499	34.698	27.790	31.9	3.888	5000	1.499	34.698	27.790	31.9	3.888
						5100	1.505	34.697	27.788	32.0	3.935	5100	1.505	34.697	27.788	32.0	3.935
						5200	1.514	34.697	27.788	32.1	3.982	5200	1.514	34.697	27.788	32.1	3.982
						5300	1.525	34.696	27.786	32.2	4.030	5300	1.525	34.696	27.786	32.2	4.030
						5400	1.534	34.697	27.786	32.2	4.079	5400	1.534	34.697	27.786	32.2	4.079

RV THOMAS WASHINGTON

INDOPAC LEG II

17

LATITUDE 12 59. N			LONGITUDE 148 49.8E			MO/DAY/YR 5/16/76			MESSENGER 2012 2317			TIME GMT			BOTTOM 5769M			WIND 060			SPEED 17KT			WEATHER 1			DOMINANT WAVES 350 6 6		
Z	T	S	O2	P04	S103	N02	N03	DT	Z	T	S	O2	SIGT	DT	DD														
0	27.64	34.542	4.63	0.12	2.	0.00	0.1	565.0	0	27.64	34.542	4.63	22.189	565.0	0.000														
59	27.63	34.539	4.63	0.21	2.	0.00	0.1	564.9	10	27.64	34.542	4.63	22.189	564.9	0.057														
85	27.55	34.617	4.65	0.18	1.	0.00	0.1	556.8	20	27.64	34.542	4.63	22.190	564.9	0.113														
110	26.88	34.714	4.76	0.16	1.	0.00	0.1	529.3	30	27.63	34.541	4.63	22.190	564.9	0.170														
134	26.66	34.859	4.73	0.14	1.	0.00	0.1	512.1	50	27.63	34.540	4.63	22.190	564.9	0.283														
164	25.67	34.950	4.67	0.15	1.	0.00	0.1	476.0	75	27.58	34.567	4.64	22.226	561.4	0.424														
194	22.76	35.069	4.22	0.14	3.	0.24	0.8	384.8	100	27.16	34.671	4.72	22.441	540.8	0.563														
229	18.97	34.863	3.92	0.42	5.	0.01	5.5	302.1	125	26.75	34.806	4.74	22.673	518.6	0.697														
268	15.30	34.610	4.08	0.65	9.	0.01	9.5	237.3	150	26.30	34.914	4.70	22.896	497.3	0.825														
303	13.07	34.433	4.15	0.90	14.	0.01	12.8	205.5	200	22.11	35.045	4.15	24.242	368.9	1.045														
342	10.83	34.290	3.62	1.40	24.	0.01	19.0	175.6	250	16.88	34.723	3.98	25.349	263.5	1.207														
389	8.74	34.216	2.74	2.03	39.	0.01	27.0	147.8	300	13.24	34.448	4.14	25.937	207.6	1.329														
438	7.85	34.288	1.95	2.40	50.	0.01	32.0	129.6	400	8.47	34.228	2.54	26.618	143.0	1.512														
497	7.30	34.374	1.62	2.54	58.	0.00	35.2	115.7	500	7.27	34.379	1.62	26.913	115.0	1.648														
577	6.54	34.475	1.63	2.64	66.	0.00	37.1	98.2	600	6.35	34.485	1.65	27.122	95.1	1.762														
687	5.72	34.494	1.69	2.82	76.	0.00	38.7	86.8	700	5.65	34.498	1.68	27.221	85.8	1.861														
796	5.20	34.521	1.61	2.88	85.	0.00	40.0	78.8	800	5.18	34.523	1.61	27.298	78.5	1.952														
935A	4.50	34.544	1.68		98.		39.5	69.5	1000	4.29	34.550	1.71	27.419	67.0	2.117														
1097	3.96	34.555	1.76	2.93	109.		40.9	63.2	1200	3.51	34.571	1.94	27.515	57.9	2.261														
1135A	3.77	34.561	1.85		114.		39.8	61.0	1500	2.75	34.605	2.18	27.614	48.5	2.449														
1434A	2.88	34.596	2.11	2.86	132.		39.8	50.2	1750	2.37	34.628	2.40	27.665	43.7	2.588														
1732A	2.39	34.626	2.39	2.84	142.		39.6	43.9	2000	2.12	34.636	2.56	27.692	41.1	2.718														
2032A	2.10	34.636	2.58	2.71	148.		38.8	40.9	2250	1.95	34.643	2.73	27.711	39.3	2.842														
2351A	1.90	34.645	2.78	2.68	151.		38.7	38.8	2500	1.82	34.654	2.86	27.730	37.5	2.962														
2631A	1.76	34.661	2.74	2.62	155.		38.2	36.5	2750	1.71	34.667	2.99	27.748	35.7	3.079														
2930A	1.65	34.674	3.08	2.62	154.		37.7	34.7	3000	1.63	34.675	3.12	27.761	34.6	3.192														
3229A	1.57	34.676	3.27	2.62	152.		37.3	34.0	3250	1.56	34.677	3.28	27.768	34.0	3.305														
3528A	1.505	34.685	3.43	2.59	152.		36.7	32.9	3500	1.51	34.685	3.42	27.778	33.0	3.415														
3728A	1.486	34.690	3.57	2.59	150.		36.5	32.4	3750	1.48	34.691	3.58	27.785	32.4	3.525														
3928A	1.458	34.691	3.67	2.54	148.		35.9	32.1	4000	1.45	34.693	3.71	27.789	32.0	3.635														
4128A	1.443	34.696	3.79	2.54	145.		35.6	31.7	4250	1.44	34.697	3.84	27.792	31.6	3.745														
4427A	1.435	34.696	3.90	2.49	142.		35.4	31.6	4500	1.44	34.697	3.93	27.793	31.6	3.856														
4726A	1.450	34.697	4.01	2.43	140.		34.8	31.6	4750	1.45	34.698	4.01	27.793	31.6	3.969														
5027A	1.462	34.700	4.05	2.47	138.		34.9	31.5	5000	1.46	34.700	4.05	27.794	31.5	4.083														
5326A	1.488	34.699	4.14	2.47	137.		34.9	31.7	5250	1.48	34.700	4.12	27.792	31.7	4.199														
5625A	1.523	34.701	4.13	2.43	137.		34.8	31.8	5500	1.51	34.701	4.13	27.791	31.8	4.318														
5724A	1.536	34.705	4.16	2.47	137.		33.1U	31.6																					

17 DU						INDOPAC LEG 11						18 C					
LATITUDE	LONGITUDE	MO/DAY/YR	START TIME			LATITUDE	LONGITUDE	MO/DAY/YR	START TIME			LATITUDE	LONGITUDE	MO/DAY/YR	START TIME		
12 59, N	148 49,8E	05/16/76	2049 GMT			12 59,5N	147 29,5E	05/17/76	0634 GMT								
Z	T	S	SIGMA T	DT	DD	Z	T	S	SIGMA T	DT	DD	Z	T	S	SIGMA T	DT	DD
0	27.62	34.56	22.209	563.0	0.000	0	27.78	34.59	22.180	565.9	0.000	0	27.78	34.59	22.180	565.9	0.000
10	27.62	34.56	22.209	563.0	0.056	10	27.76	34.59	22.186	565.2	0.057	10	27.76	34.59	22.186	565.2	0.057
20	27.62	34.58	22.224	561.6	0.113	20	27.73	34.59	22.196	564.3	0.113	20	27.73	34.59	22.196	564.3	0.113
30	27.62	34.58	22.224	561.6	0.169	30	27.71	34.59	22.203	563.7	0.170	30	27.71	34.59	22.203	563.7	0.170
40	27.62	34.58	22.224	561.6	0.225	40	27.71	34.59	22.203	563.7	0.226	40	27.71	34.59	22.203	563.7	0.226
50	27.63	34.58	22.221	561.9	0.282	50	27.72	34.63	22.229	561.1	0.283	50	27.72	34.63	22.229	561.1	0.283
75	27.63	34.58	22.221	561.9	0.423	75	27.08	34.91	22.646	521.3	0.418	75	27.08	34.91	22.646	521.3	0.418
100	27.20	34.71	22.457	539.3	0.561	100	26.78	34.98	22.794	507.1	0.548	100	26.78	34.98	22.794	507.1	0.548
125	26.80	34.79	22.645	521.4	0.695	125	26.14	34.95	22.973	490.0	0.674	125	26.14	34.95	22.973	490.0	0.674
150	26.58	34.93	22.820	504.6	0.825	150	24.98	35.03	23.391	450.1	0.793	150	24.98	35.03	23.391	450.1	0.793
175	25.10	35.03	23.355	453.5	0.946	175	21.91	35.07	24.316	361.8	0.876	175	21.91	35.07	24.316	361.8	0.876
200	22.28	35.11	24.242	368.8	1.051	200	20.23	35.01	24.728	322.6	0.963	200	20.23	35.01	24.728	322.6	0.963
225	19.22	34.88	24.892	306.9	1.137	225	17.83	34.84	25.210	276.7	1.060	225	17.83	34.84	25.210	276.7	1.060
250	16.87	34.76	25.380	260.6	1.210	250	16.57	34.75	25.445	256.6	1.128	250	16.57	34.75	25.445	256.6	1.128
275	14.88	34.58	25.694	230.7	1.273	275	14.85	34.57	25.692	230.8	1.191	275	14.85	34.57	25.692	230.8	1.191
300	13.40	34.46	25.913	209.9	1.330	300	13.52	34.48	25.904	210.7	1.248	300	13.52	34.48	25.904	210.7	1.248
350	10.49	34.27	26.318	171.4	1.430	350	9.92	34.25	26.401	163.6	1.345	350	9.92	34.25	26.401	163.6	1.345
400	8.38	34.21	26.618	143.0	1.512	400	8.69	34.22	26.578	146.8	1.426	400	8.69	34.22	26.578	146.8	1.426
450	7.56	34.31	26.818	124.0	1.582	450	8.05	34.28	26.722	133.0	1.500	450	8.05	34.28	26.722	133.0	1.500
500	7.25	34.38	26.917	114.6	1.646	500	7.32	34.35	26.884	117.7	1.567	500	7.32	34.35	26.884	117.7	1.567
550	6.77	34.46	27.047	102.3	1.704	550	6.53	34.39	27.024	104.5	1.626	550	6.53	34.39	27.024	104.5	1.626
600	6.29	34.47	27.118	95.5	1.758	600	6.17	34.42	27.095	97.8	1.681	600	6.17	34.42	27.095	97.8	1.681
650	5.91	34.48	27.175	90.1	1.808	650	5.65	34.46	27.192	88.5	1.732	650	5.65	34.46	27.192	88.5	1.732
700	5.62	34.50	27.227	85.2	1.857	700	5.44	34.48	27.232	84.7	1.779	700	5.44	34.48	27.232	84.7	1.779
750	5.37	34.51	27.265	81.6	1.903	750	5.20	34.51	27.286	79.6	1.825	750	5.20	34.51	27.286	79.6	1.825
800	5.13	34.52	27.302	78.1	1.947	800	5.03	34.51	27.306	77.8	1.869	800	5.03	34.51	27.306	77.8	1.869
850	4.89	34.53	27.337	74.7	1.990	850	4.78	34.52	27.342	74.3	1.911	850	4.78	34.52	27.342	74.3	1.911
900	4.68	34.54	27.369	71.7	2.032	900	4.52	34.53	27.379	70.8	1.952	900	4.52	34.53	27.379	70.8	1.952
950	4.48	34.54	27.391	69.6	2.072	950	4.33	34.54	27.408	68.1	1.992	950	4.33	34.54	27.408	68.1	1.992
1000	4.28	34.55	27.424	66.5	2.111	1000	4.14	34.54	27.428	66.1	2.030	1000	4.14	34.54	27.428	66.1	2.030
1100	3.96	34.56	27.463	62.9	2.185	1100	3.76	34.56	27.483	60.9	2.103	1100	3.76	34.56	27.483	60.9	2.103
1200	3.62	34.56	27.497	59.6	2.256	1200	3.46	34.57	27.521	57.4	2.172	1200	3.46	34.57	27.521	57.4	2.172
1300	3.29	34.58	27.545	55.1	2.324	1300	3.15	34.58	27.558	53.8	2.237	1300	3.15	34.58	27.558	53.8	2.237
1400	3.03	34.59	27.577	52.3	2.387	1400	2.90	34.60	27.597	50.1	2.298	1400	2.90	34.60	27.597	50.1	2.298
1500	2.81	34.60	27.605	49.4	2.447	1500	2.66	34.61	27.627	47.3	2.356	1500	2.66	34.61	27.627	47.3	2.356
1600	2.593	34.611	27.633	46.7	2.505	1600	2.527	34.618	27.644	45.6	2.411	1600	2.527	34.618	27.644	45.6	2.411
1700	2.449	34.619	27.652	44.9	2.560	1700	2.375	34.623	27.661	44.0	2.465	1700	2.375	34.623	27.661	44.0	2.465
1800	2.311	34.627	27.670	43.2	2.613	1800	2.226	34.631	27.680	42.3	2.517	1800	2.226	34.631	27.680	42.3	2.517
1900	2.198	34.634	27.685	41.8	2.665	1900	2.104	34.640	27.697	40.7	2.568	1900	2.104	34.640	27.697	40.7	2.568
2000	2.104	34.639	27.696	40.7	2.716	2000	2.002	34.645	27.706	39.8	2.617	2000	2.002	34.645	27.706	39.8	2.617
2100	2.045	34.646	27.707	39.8	2.765	2100	1.966	34.649	27.715	38.9	2.666	2100	1.966	34.649	27.715	38.9	2.666
2200	1.976	34.649	27.714	39.0	2.814	2200	1.922	34.652	27.721	38.4	2.713	2200	1.922	34.652	27.721	38.4	2.713
2300	1.913	34.654	27.723	38.2	2.863	2300	1.878	34.659	27.734	37.2	2.761	2300	1.878	34.659	27.734	37.2	2.761
2400	1.855	34.659	27.732	37.4	2.910	2400	1.769	34.663	27.742	36.4	2.807	2400	1.769	34.663	27.742	36.4	2.807
2500	1.804	34.662	27.738	36.8	2.957	2500	1.729	34.667	27.748	35.8	2.852	2500	1.729	34.667	27.748	35.8	2.852
2600	1.773	34.665	27.743	36.3	3.003	2600	1.690	34.669	27.752	35.4	2.897	2600	1.690	34.669	27.752	35.4	2.897
2700	1.729	34.667	27.748	35.8	3.050	2700	1.660	34.672	27.757	35.0	2.942	2700	1.660	34.672	27.757	35.0	2.942
2800	1.685	34.670	27.754	35.3	3.095	2800	1.621	34.674	27.762	34.5	2.986	2800	1.621	34.674	27.762	34.5	2.986
2900	1.650	34.673	27.759	34.8	3.141	2900	1.572	34.677	27.768	34.0	3.030	2900	1.572	34.677	27.768	34.0	3.030
3000	1.621	34.676	27.763	34.4	3.186	3000	1.553	34.679	27.771	33.7	3.074	3000	1.553	34.679	27.771	33.7	3.074
3100	1.592	34.678	27.767	34.0	3.230	3100	1.544	34.681	27.773	33.5	3.118	3100	1.544	34.681	27.773	33.5	3.118
3200	1.576	34.680	27.770	33.6	3.275	3200	1.536	34.681	27.773	33.4	3.161	3200	1.536	34.681	27.773	33.4	3.161
3300	1.554	34.682	27.773	33.5	3.319	3300	1.524	34.683	27.776	33.2	3.205	3300	1.524	34.683	27.776	33.2	3.205
3400	1.535	34.684	27.776	33.2	3.363	3400	1.516	34.684	27.777	33.1	3.249	3400	1.516	34.684	27.777	33.1	3.249
3500	1.511	34.686	27.779	32.9	3.407	3500	1.500	34.685	27.779	32.9	3.293	3500	1.500	34.685	27.779	32.9	3.293
3600	1.496	34.688	27.782	32.6	3.451	3600	1.483	34.689	27.784	32.5	3.337	3600	1.483	34.689	27.784	32.5	3.337
3700	1.486	34.689	27.783	32.5	3.495	3700	1.472	34.689	27.784	32.4	3.380	3700	1.472	34.689	27.784	32.4	3.380
3800	1.477	34.690	27.785	32.3	3.539	3800	1.456	34.690	27.786	32.2	3.424	3800	1.456	34.690	27.786	32.2	3.424
3900	1.466	34.691	27.786	32.2	3.583	3900	1.460	34.691	27.787	32.2	3.468	3900	1.460	34.691	27.787	32.2	3.468
4000	1.458	34.692	27.788	32.1	3.627	4000	1.445	34.693	27.790	31.9	3.512	4000	1.445	34.693	27.790	31.9	3.512
4100	1.449	34.694	27.790	31.8	3.671	4100	1.442	34.693	27.790	31.9	3.555	4100	1.442	34.693	27.790	31.9	3.555
4200	1.443	34.695	27.791	31.7	3.715	4200	1.441	34.695	27.791	31.7	3.599	4200	1.441	34.695	27.791	31.7	3.599
4300	1.439	34.696	27.792	31.6	3.759	4300	1.436	34.695	27.792	31.7	3.644	4300	1.436	34.695	27.792	31.7	3.644
4400	1.438	34.697	27.793	31.5	3.804	4400	1.444	34.696	27.792	31.7	3.688	4400	1.444	34.696	27.792	31.7	3.688
4500	1.436	34.698	27.794	31.5	3.848	4500	1.440	34.696									

MV THOMAS WASHINGTON

INDOPAC LEG II

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LATITUDE		LONGITUDE		MO/DAY/YR		MESSENGER		TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES		
12 58.5N		146 09.5E		5/17/76		2124 0158		GMT	9978M	050	10KT	1	050 6 8		
Z	T	S	02	P04	S103	N02	N03	DT	Z	T	S	02	S10T	DT	DD
1	27.76	34.699	4.66	0.22	3.	0.00	0.0	557.4	0	27.76	34.699	4.66	22.268	557.4	0.000
51	27.72	34.695	4.62	0.21	3.	0.00	0.0	556.4	10	27.75	34.699	4.65	22.270	557.2	0.056
71	27.57	34.721	4.65	0.18	3.	0.00	0.0	549.9	20	27.74	34.698	4.64	22.272	557.0	0.112
91	27.03	34.875	4.73	0.13	3.	0.00	0.0	522.2	30	27.74	34.697	4.64	22.274	556.8	0.167
111	26.70	34.971	4.74	0.11	3.	0.00	0.0	505.3	50	27.72	34.696	4.62	22.278	556.5	0.279
131	26.24	34.950	4.68	0.15	3.	0.00	0.0	493.0	75	27.47	34.750	4.67	22.400	544.8	0.417
161	24.68	35.033	4.43	0.14	4.	0.00	0.1	441.2	100	26.68	34.928	4.73	22.725	513.7	0.550
197	21.97	35.083	4.12	0.24	4.	0.00	1.3	362.5	125	26.41	34.959	4.71	22.896	497.3	0.678
231	18.66	34.898	4.14	0.53	6.	0.00	3.9	292.1	150	25.35	34.997	4.53	23.253	463.2	0.799
272	15.59	34.627	3.68	0.82	13.	0.00	10.4	242.2	200	21.68	35.070	4.12	24.381	355.7	1.008
310	12.54	34.449	3.09	1.39	24.	0.00	18.1	194.3	250	17.19	34.774	3.97	25.315	266.7	1.167
351	10.62	34.410	2.40	1.80	33.	0.00	24.6	166.6	300	15.28	34.483	3.26	25.954	206.0	1.289
391	9.96	34.494	1.47	2.25	38.	0.00	30.4	146.2	400	9.74	34.501	1.46	26.626	142.2	1.471
473	8.14	34.509	1.34	2.50	52.	0.00	35.5	117.3	500	7.76	34.502	1.41	26.939	112.5	1.607
574	6.96	34.470	1.64	2.59	64.	0.00	35.7	104.0	600	6.68	34.465	1.64	27.061	100.9	1.723
699	5.80	34.461	1.64	2.78	81.	0.00	37.9	90.2	700	5.79	34.462	1.64	27.175	90.1	1.827
847	5.09	34.509	1.77	2.84	94.	0.00	39.1	78.5	800	5.28	34.493	1.73	27.262	81.6	1.922
1046	4.15	34.543	1.82	2.90	111.	0.00	40.2	66.0	1000	4.35	34.537	1.81	27.402	68.6	2.092
1243	3.48		2.00	2.90	126.	0.00	40.0		1200	3.61	34.572	1.96	27.506	58.7	2.240
1393A	3.02	34.589	2.07	2.80	135.		38.0	52.0	1500	2.77	34.599	2.18	27.607	49.2	2.430
1487	2.80	34.597	2.17	2.91	139.		39.7	49.5	1750	2.37	34.619	2.39	27.658	44.4	2.571
1693A	2.44	34.614	2.34	2.40	145.		38.6	45.3	2000	2.12	34.635	2.58	27.691	41.2	2.701
1992A	2.13	34.634	2.58	2.59	152.		38.2	41.3	2250	1.93	34.646	2.72	27.715	38.9	2.825
2291A	1.90	34.647	2.74	2.64	153.		38.1	38.6	2500	1.77	34.656	2.89	27.735	37.0	2.944
2590A	1.73	34.660	2.95	2.70	156.		37.5	36.4	2750	1.67	34.666	3.03	27.751	35.4	3.059
2890A	1.62	34.670	3.09	2.45	156.		37.5	34.8	3000	1.58	34.673	3.15	27.763	34.5	3.171
3188A	1.53	34.677	3.26	2.36	155.		36.7	33.7	3250	1.52	34.678	3.29	27.772	33.6	3.281
3488A	1.50	34.680	3.43	2.29	153.		36.5	33.3	3500	1.50	34.681	3.44	27.776	33.2	3.392
3787A	1.45	34.688	3.67	2.29	148.		35.8	32.3	3750	1.46	34.688	3.64	27.784	32.4	3.502
4087A	1.43	34.692	3.80	2.25	145.		35.8	31.9	4000	1.43	34.691	3.77	27.789	32.0	3.611
4386A	1.417	34.694	3.90	2.29	143.		35.2	31.6	4250	1.42	34.694	3.85	27.791	31.7	3.721
4685A	1.431	34.697	4.01	2.26	141.		34.8	31.5	4500	1.42	34.696	3.95	27.793	31.6	3.831
4985A	1.454	34.698	4.05	2.29	141.		34.7	31.6	4750	1.44	34.698	4.02	27.794	31.5	3.943
5286A	1.480	34.699	4.09	2.29	140.		34.5	31.7	5000	1.46	34.699	4.05	27.793	31.6	4.057
5585A	1.526	34.699	4.05	2.29			34.5	32.0	5250	1.48	34.699	4.09	27.792	31.7	4.174
5884A	1.568	34.698	4.07	2.29	142.		34.5	32.4	5500	1.51	34.700	4.06	27.790	31.9	4.293
6183A	1.608	34.700	4.10	2.29	142.		34.2	32.6	5750	1.55	34.699	4.06	27.786	32.2	4.415
6484A	1.658	34.699	4.09	2.34	144.		34.1	32.9	6000	1.58	34.699	4.08	27.784	32.4	4.541
6782A	1.703	34.700	4.08	2.37	142.			33.2	6250	1.62	34.700	4.10	27.782	32.6	4.669
7079A	1.750	34.700	4.13	2.41	142.		34.5	33.5	6500	1.66	34.700	4.09	27.779	32.9	4.801
9937B	2.262	34.701	4.12	2.35	141.		35.4	37.3	6750	1.70	34.700	4.08	27.777	33.1	4.937
9940B	2.266	34.700	4.07	2.40	141.		35.4	37.4	7000	1.74	34.701	4.11	27.774	33.4	5.076
									7250	1.78	34.701	4.13	27.770	33.7	5.220
									7500	1.83	34.701	4.13	27.767	34.1	5.367
									7750	1.87	34.700	4.13	27.763	34.4	5.519
									8000	1.91	34.700	4.13	27.760	34.7	5.675
									8250	1.96	34.701	4.13	27.756	35.0	5.835
									8500	2.00	34.701	4.13	27.753	35.4	5.999
									8750	2.05	34.701	4.12	27.749	35.7	6.168
									9000	2.09	34.701	4.12	27.746	36.0	6.341
									9250	2.14	34.701	4.12	27.743	36.4	6.519
									9500	2.18	34.701	4.12	27.739	36.7	6.700

RV THOMAS WASHINGTON

INDOPAC LEG II

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LATITUDE		LONGITUDE		MO/DAY/YR		MESSENGER		TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES		
13 05.5N		145 00. E		5/18/76		1500		GMT	2920M	030	21KT	1	040 12		
Z	T	S	02	P04	S103	N02	N03	DT	Z	T	S	02	S10T	DT	DD
1	27.79	34.621	4.61	0.13	2.	0.00	0.2	563.9	0	27.79	34.621	4.61	22.200	563.9	0.000
51	27.78	34.620	4.61	0.15	3.	0.00	0.2	563.7	10	27.79	34.622	4.61	22.200	563.9	0.056
76	27.30	34.656	4.70		4.	0.00	0.1	546.3	20	27.79	34.622	4.61	22.201	563.9	0.113
101	26.98	34.809	4.69	0.11	3.	0.00	0.1	525.5	30	27.78	34.622	4.61	22.201	563.8	0.169
126	26.72	34.925	4.66	0.07	3.	0.00	0.1	509.2	50	27.78	34.621	4.61	22.202	563.7	0.282
146	25.78	34.952	4.66	0.05	2.	0.00	0.1	479.1	75	27.32	34.654	4.70	22.576	547.1	0.422
166	24.66	35.050	4.51		2.	0.07	0.1	439.4	100	26.99	34.802	4.69	22.593	526.3	0.557
186	22.60	35.103	4.14		2.	0.03	0.9	378.0	125	26.74	34.921	4.66	22.763	510.0	0.686
210	19.04	34.854	3.80	0.41	7.	0.04	5.7	304.4	150	25.60	34.971	4.64	23.157	472.4	0.812
241	17.01	34.720	3.67	0.59	11.	0.06	8.7	266.6	200	20.49	34.961	3.92	24.622	332.7	1.016
281	13.55	34.492	3.28	1.14	20.	0.09	15.9	210.4	250	16.21	34.662	3.58	25.457	253.2	1.167
330	11.22	34.358	3.10	1.40	30.	0.07	20.8	177.3	300	12.45	34.421	3.21	26.073	194.7	1.282
380	10.14	34.447	1.77	2.07	39.	0.04	29.6	152.6	400	9.52	34.405	1.87	26.589	145.7	1.440
430	8.60	34.336	2.03		51.	0.04	31.1	136.9	500	7.54	34.436	1.63	26.920	114.3	1.599
525	7.29	34.485	1.44	2.58	61.	0.01	37.1	107.3	600	6.14	34.458	1.53	27.127	94.7	1.712
624	5.83	34.443	1.56	2.70	81.	0.01	39.1	91.9	700	5.39	34.483	1.65	27.240	83.9	1.809
724	5.32	34.497	1.67	2.76	88.	0.00	39.6	82.0	800	5.00	34.517	1.70	27.314	76.9	1.899
849	4.81	34.523	1.71	2.79	96.	0.00	40.5	74.4	1000	4.23	34.539	1.75	27.417	67.2	2.062
998	4.24	34.538	1.75		106.	0.00	41.0	67.3	1200	3.53	34.567	1.92	27.510	58.4	2.207
1198	3.54	34.565	1.92	2.82	119.	0.00	40.7	58.5	1500	2.93	34.597	2.09	27.591	50.7	2.400
1396	3.11	34.587	2.01	2.87	126.	0.00	41.3	52.9	1750	2.47	34.613	2.31	27.644	45.5	2.545
1595	2.77	34.603	2.18	2.86	130.	0.00	41.2	48.8	2000	2.12	34.630	2.50	27.687	41.6	2.677
1841	2.31	34.619	2.38	2.62	139.	0.00	41.3	43.8							
2088	2.06	34.634	2.56	2.78	142.	0.00	41.1	40.8							

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INDOPAC LEG II

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LATITUDE 12 00,5N	LONGITUDE 146 00,5E	MO/DAY/YR 05/10/76	START TIME 0116 GMT		LATITUDE 13 00,5N	LONGITUDE 145 00, E	MO/DAY/YR 05/10/76	START TIME 1357 GMT			
Z	T	S	SIGMA T	DT	DD	Z	T	S	SIGMA T	DT	DD
0	27.76	34.73	22.291	555.2	0.000	0	27.79	34.64	22.214	562.6	0.000
10	27.75	34.73	22.295	554.9	0.056	10	27.79	34.64	22.214	562.6	0.056
20	27.74	34.73	22.298	554.5	0.111	20	27.80	34.64	22.211	562.9	0.113
30	27.73	34.73	22.301	554.2	0.167	30	27.80	34.64	22.211	562.9	0.169
40	27.73	34.73	22.301	554.2	0.222	40	27.80	34.64	22.211	562.9	0.225
50	27.73	34.73	22.301	554.2	0.278	50	27.80	34.64	22.211	562.9	0.282
75	27.61	34.74	22.348	549.8	0.416	75	27.29	34.71	22.428	542.1	0.421
100	27.03	34.90	22.654	520.4	0.551	100	27.06	34.81	22.577	527.8	0.555
125	26.66	35.00	22.847	502.0	0.680	125	26.67	34.96	22.614	505.2	0.686
150	25.90	35.01	23.093	478.5	0.804	150	25.52	35.00	23.203	468.0	0.809
175	23.96	35.08	23.734	417.3	0.918	175	23.82	35.09	23.783	412.6	0.920
200	21.70	35.07	24.374	356.2	1.016	200	22.45	35.04	24.141	378.5	1.041
225	19.58	34.94	24.845	311.4	1.101	225	17.70	34.74	25.165	280.9	1.105
250	17.10	34.76	25.325	265.7	1.176	250	15.61	34.62	25.518	247.5	1.173
275	14.95	34.58	25.678	232.2	1.240	275	13.48	34.48	25.912	209.9	1.242
300	12.56	34.42	26.050	196.8	1.295	300	12.30	34.40	26.085	193.5	1.284
350	10.68	34.44	26.417	162.0	1.389	350	10.52	34.31	26.344	169.0	1.379
400	9.48	34.49	26.661	138.8	1.468	400	9.73	34.44	26.581	146.5	1.462
450	8.25	34.48	26.849	121.0	1.537	450	8.25	34.28	26.692	135.9	1.536
500	7.74	34.50	26.941	112.3	1.600	500	7.47	34.46	26.875	118.5	1.604
550	7.10	34.47	27.009	105.9	1.659	550	6.50	34.36	27.004	106.3	1.665
600	6.65	34.45	27.055	101.5	1.715	600	5.95	34.41	27.115	95.8	1.719
650	6.15	34.44	27.113	96.0	1.769	650	5.49	34.46	27.211	86.7	1.769
700	5.76	34.46	27.178	89.8	1.820	700	5.40	34.48	27.238	84.1	1.816
750	5.42	34.48	27.236	84.4	1.868	750	5.13	34.50	27.286	79.6	1.861
800	5.27	34.52	27.285	79.7	1.913	800	4.92	34.51	27.318	76.6	1.904
850	5.04	34.51	27.304	77.9	1.958	850	4.75	34.52	27.346	74.0	1.947
900	4.79	34.52	27.341	74.4	2.001	900	4.53	34.52	27.370	71.6	1.988
950	4.55	34.53	27.376	71.1	2.042	950	4.39	34.52	27.385	70.2	2.028
1000	4.32	34.54	27.409	68.0	2.082	1000	4.17	34.53	27.417	67.2	2.067
1100	3.92	34.56	27.467	62.5	2.157	1100	3.80	34.55	27.471	62.1	2.145
1200	3.57	34.57	27.510	58.4	2.227	1200	3.43	34.56	27.516	57.8	2.210
1300	3.26	34.58	27.548	54.8	2.293	1300	3.22	34.58	27.552	54.4	2.273
1400	3.02	34.60	27.586	51.2	2.356	1400	3.07	34.59	27.574	52.3	2.339
1500	2.78	34.61	27.616	48.3	2.415	1500	2.92	34.59	27.587	51.0	2.401
						1600	2.721	34.603	27.616	48.4	2.460
						1700	2.580	34.610	27.633	46.7	2.518
						1800	2.395	34.616	27.654	44.7	2.573
						1900	2.212	34.628	27.679	42.4	2.626
						2000	2.128	34.634	27.690	41.3	2.678
						2100	2.042	34.642	27.704	40.0	2.728

RV THOMAS WASHINGTON

INDOPAC LEG 111

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LATITUDE 11 20.0N		LONGITUDE 142 10.3E		MO/DAY/YR 5/27/76		MESSENGER 1500 2310		TIME GMT	POTOM 10926M	WIND 100	SPEED KFT	WEATHER 0	DOMINANT WAVES		
Z	T	S	02	P04	S103	N02	N03	DT	Z	T	S	02	SIGT	DT	CO
0	28.28	34.433	4.72	0.10	2.	0.0	592.8	0	28.28	34.433	4.72	21.899	592.8	0.000	
20	27.90	34.509	4.57	0.10	2.	0.0	575.4	10	28.07	34.474	4.63	21.997	583.3	0.059	
70	27.49	34.560	4.60	0.04	2.	0.0	559.0	20	27.90	34.509	4.57	22.060	575.4	0.117	
95	27.23	34.655	4.65	0.02	2.	0.1	544.2	30	27.79	34.520	4.58	22.125	571.3	0.174	
120	26.40	34.901	4.65	0.12	2.	0.1	501.3	50	27.64	34.541	4.59	22.196	564.3	0.229	
144	24.16	35.063	4.40	0.11	2.	0.1	424.2	75	27.46	34.573	4.61	22.269	557.4	0.289	
174	20.56	35.022	4.06	0.23	3.	2.6	330.1	100	27.15	34.703	4.65	22.468	536.3	0.567	
209	17.39	34.764	3.86	0.51	8.	6.5	272.1	125	26.04	34.944	4.61	23.009	486.6	0.696	
249	13.17	34.493	2.89	1.26	19.	18.8	203.0	150	23.44	34.069	4.53	23.129	403.6	0.809	
293	10.52	34.536	2.81	1.60	29.	23.7	167.0	200	18.18	34.844	4.93	25.129	284.4	0.984	
338	9.38	34.427	1.79	2.12	39.	30.9	141.9	250	13.09	34.488	2.69	26.415	201.9	1.109	
388	8.68	34.504	1.30	2.33	44.	34.6	125.6	300	10.27	34.544	1.33	26.829	162.4	1.203	
447	7.76	34.470	1.45	2.35	53.	33.4	114.8	400	8.49	34.502	1.33	27.005	123.0	1.353	
547	6.74	34.469	1.74	2.49	62.	34.8	99.9	500	7.15	34.475	1.61	27.129	96.4	1.475	
697	5.91	34.520	1.81	2.64	71.	36.3	87.1	600	6.40	34.502	1.76	27.129	76.4	1.564	
897	4.89	34.531	1.71	2.79	90.	38.1	74.6	700	5.89	34.521	1.81	27.209	66.9	1.683	
1150	3.74	34.565	1.75	2.92	114.	39.4	60.4	800	5.37	34.527	1.74	27.278	60.3	1.777	
1290A	3.40	34.575	1.94		121.	38.5	56.4	1000	4.37	34.545	1.74	27.407	48.2	1.945	
1405	3.00	34.592	2.10	2.84	128.	38.7	51.6	1200	3.62	34.569	1.83	27.504	38.9	2.092	
1587A	2.67	34.607	2.23	2.26	137.	38.2	47.6	1500	2.80	34.602	2.18	27.607	49.2	2.283	
1884A	2.20	34.626	2.49	2.52	146.	38.2	42.3	1750	2.39	34.620	2.37	27.656	44.5	2.424	
2182A	1.94	34.643	2.66	2.36	152.	37.8	39.2	2000	2.08	34.635	2.56	27.692	40.9	2.554	
2478A	1.72	34.659	2.91	2.20	154.	37.7	36.4	2250	1.88	34.647	2.72	27.719	38.5	2.677	
2774A	1.62	34.669	3.09	2.04	155.	37.6	34.4	2500	1.71	34.660	2.93	27.743	36.2	2.793	
3067B	1.55	34.674	3.17	2.08	155.	37.9	34.1	2750	1.63	34.669	3.08	27.756	35.0	2.906	
3365B	1.51	34.680	3.34	2.13	154.	37.5	33.3	3000	1.56	34.673	3.15	27.765	34.2	3.017	
3663B	1.48	34.685	3.51	2.37	149.	36.9	32.7	3250	1.52	34.678	3.27	27.772	33.6	3.127	
3960B	1.47	34.685	3.61	2.37	149.	36.9	32.7	3500	1.50	34.683	3.42	27.777	33.0	3.237	
4260B	1.460	34.690	3.72	2.38	146.	36.0	32.2	3750	1.43	34.686	3.54	27.781	32.7	3.347	
4561B	1.451	34.694	3.87	2.30	143.	35.6	31.9	4000	1.47	34.686	3.62	27.782	32.6	3.458	
4856B	1.467	34.695	3.97	2.28	142.	35.3	31.9	4250	1.46	34.690	3.72	27.786	32.2	3.570	
5154B	1.487	34.697	3.97	2.28	141.	35.5	31.9	4500	1.45	34.694	3.84	27.789	31.9	3.683	
5455B	1.518	34.697	4.06	2.20	140.	35.0	32.1	4750	1.46	34.695	3.94	27.790	31.9	3.796	
5755B	1.561	34.698	4.06	2.22	140.	35.2	32.1	5000	1.48	34.697	3.97	27.790	31.9	3.912	
6056B	1.597	34.698	4.03	2.20	140.	35.4	32.6	5250	1.50	34.696	4.00	27.789	31.9	4.029	
6357B	1.640	34.698	4.06	2.21	139.	35.1	32.9	5500	1.52	34.698	4.06	27.787	32.1	4.149	
6658B	1.688	34.700	4.07		139.	35.3	33.1	5750	1.56	34.699	4.04	27.785	32.3	4.273	
6956B	1.732	34.699	4.07	2.33	139.	35.0	33.4	6000	1.59	34.699	4.03	27.783	32.5	4.399	
10889C	2.460	34.699	4.07	2.23	139.	35.2	39.0	6250	1.62	34.699	4.05	27.781	32.8	4.528	
10892C	2.462	34.699	4.06	2.23	139.	34.8	39.0	6500	1.66	34.700	4.06	27.778	33.0	4.660	
									1.70	34.700	4.07	27.776	33.2	4.796	
									1.74	34.700	4.07	27.773	33.4	4.936	
									1.79	34.699	4.07	27.769	33.5	5.077	
									1.83	34.699	4.07	27.765	33.6	5.218	
									1.88	34.699	4.07	27.761	33.7	5.361	
									1.93	34.699	4.07	27.758	33.9	5.506	
									1.97	34.699	4.07	27.754	34.1	5.654	
									2.02	34.699	4.07	27.750	34.4	5.804	
									2.06	34.699	4.07	27.747	34.7	5.958	
									2.11	34.699	4.07	27.743	35.0	6.116	
									2.16	34.699	4.07	27.739	35.4	6.279	
									2.20	34.699	4.07	27.735	35.8	6.447	
									2.30	34.699	4.07	27.728	36.8	6.801	

RV THOMAS WASHINGTON

INDOPAC LEG 111

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LATITUDE 10 51.9N		LONGITUDE 140 10.6E		MO/DAY/YR 5/28/76		MESSENGER 1216 1602		TIME GMT	POTOM 6048M	WIND 110	SPEED 6KT	WEATHER 1	DOMINANT WAVES	
Z	T	S	02	P04	S103	N02	N03	LT	Z	T	S	02	SIGT	DT
0	28.50	34.398	4.60	0.21	1.	0.00	0.1	602.2	0	28.50	34.398	4.60	21.800	602.2
31	28.30	34.387	4.59	0.16	1.	0.00	0.1	596.7	10	28.47	34.411	4.60	21.819	600.5
50	28.01	34.410	4.62	0.16	1.	0.00	0.1	586.0	20	28.41	34.409	4.59	21.837	598.7
76	27.87	34.491	4.62	0.16	1.	0.00	0.1	575.8	30	28.31	34.390	4.59	21.856	596.9
100	27.03	34.732	4.75	0.17	1.	0.00	0.1	532.5	50	28.01	34.410	4.62	21.970	586.0
126	26.45	34.950	4.70	0.16	1.	0.00	0.1	499.3	75	27.88	34.486	4.62	22.069	576.5
146	23.20	34.939	4.21	0.25	3.	0.25	0.7	406.2	100	27.03	34.732	4.75	22.528	532.5
166	21.14	34.909	3.97	0.38	3.	0.13	3.3	353.2	125	26.47	34.930	4.70	22.854	501.3
186	18.61	34.810	3.77	0.59	5.	0.00	6.5	297.3	150	22.76	34.939	4.15	23.977	394.2
210	15.96	34.648	3.60	0.85	9.	0.00	11.1	248.6	200	17.01	34.714	3.66	25.311	267.1
236	13.60		3.49	1.09	16.	0.00	15.0		250	12.31	34.449	3.40	26.121	190.2
271	10.79	34.349	3.12	1.59	28.	0.00	21.7	170.6	300	10.27	34.422	2.26	26.474	156.6
305	10.25	34.439	2.11	2.03	34.	0.00	27.5	155.0	400	8.16	34.496	1.41	26.875	115.6
346	9.23	34.450	1.69	2.27	42.	0.00	31.5	137.9	500	7.01	34.502	1.67	27.047	102.3
401	8.14	34.496	1.41	2.56	50.	0.00	34.8	118.3	600	6.16	34.502	1.75	27.160	91.5
460	7.48	34.506	1.54	2.64	54.	0.00	35.7	108.3	700	5.62	34.517	1.74	27.241	83.9
541	6.57	34.497	1.78	2.67	64.	0.00	36.7	97.0	800	5.09	34.533	1.77	27.316	76.8
650	5.90	34.509	1.73	2.78	73.	0.00	37.6	87.8	1000	4.28	34.557	1.86	27.426	66.4
801	5.09	34.533	1.77	2.80	87.	0.00	39.6	76.7	1200	3.58	34.576	2.05	27.513	58.1
945A	4.46	34.549	1.79		100.	0.03	38.8	68.7	1500	2.77	34.605	2.23	27.612	48.7
1099	3.96	34.567	2.00	2.78	110.	0.00	39.1	62.3	1750	2.34	34.624	2.44	27.664	43.8
1146A	3.77	34.570	2.03	2.64	114.		39.3	60.3	2000	2.05	34.637	2.64	27.698	40.3
1346A	3.14	34.588	2.11	2.82	129.	0.03	39.5	53.1	2250	1.88	34.651	2.80	27.723	38.1
1596A	2.58	34.613	2.32	2.66	141.	0.00	39.7	46.5	2500	1.77	34.659	2.93	27.738	36.8
1846A	2.22	34.628	2.52	2.62	148.	0.00	39.1	42.5	2750	1.67	34.667	3.04	27.752	35.5
2146A	1.93	34.648	2.74	2.45	152.	0.00	38.7	38.7	3000	1.61	34.671	3.16	27.759	34.7
2446A	1.80	34.657	2.90	2.44	155.	0.00	38.5	37.1	3250	1.58	34.675	3.34	27.764	34.3
2746A	1.67	34.666	3.04	2.43	156.		38.0	35.5	3500	1.54	34.680	3.41	27.772	33.6
3046A	1.60	34.671	3.19	2.57	156.		37.3	34.6	3750	1.52	34.684	3.45	27.777	33.1
3347A	1.57	34.675	3.40	2.57	156.		37.6	34.1	4000	1.50	34.686	3.57	27.779	32.9
3597A	1.52	34.682	3.41	2.54	154.	0.00	37.2	33.2	4250	1.48	34.690	3.65	27.784	32.4
3798A	1.52	34.684	3.47	2.53	154.	0.00	36.6	33.1	4500	1.48	34.694	3.76	27.788	32.1
3998A	1.50	34.685	3.57	2.52	152.	0.00	36.6	32.9	4750	1.47	34.697	3.88	27.790	31.8
4199A	1.48	34.688	3.63	2.49	151.	0.00	36.2	32.5	5000	1.47	34.700	4.01	27.793	31.5
4448A	1.48	34.693	3.74	2.44	148.	0.00	35.2	32.1	5250	1.49	34.700	4.04	27.792	31.6
4747A	1.471	34.696	3.88	2.45	144.	0.00	34.5	31.3	5500	1.52	34.700	4.03	27.789	31.9
5047A	1.466	34.700	4.03	2.39	141.	0.00	33.2	31.5	5750	1.55	34.701	4.04	27.787	32.1
5349A	1.502	34.700	4.04	2.44	141.	0.00	33.0	31.8	6000	1.59	34.702	4.08	27.786	32.2
5649A	1.540	34.699	4.03	2.46	141.	0.01	33.9	32.1						
5949A	1.580	34.702	4.07	2.45	141.	0.00	34.6	32.1						

21 S						INDOPAC LEG III						22 E					
LATITUDE	LONGITUDE	MO/DAY/YR	START TIME			LATITUDE	LONGITUDE	MO/DAY/YR	START TIME			LATITUDE	LONGITUDE	MO/DAY/YR	START TIME		
11 20. N	142 10.3E	05/27/76	2216 GMT			10 51.9N	140 10.6E	05/28/76	1730 GMT			10 51.9N	140 10.6E	05/28/76	1730 GMT		
Z	T	S	SIGMA T	DT	DD	Z	T	S	SIGMA T	DT	DD	Z	T	S	SIGMA T	DT	DD
0	28.21	34.46	21.942	588.6	0.000	0	28.67	34.44	21.775	604.6	0.000	0	28.67	34.44	21.775	604.6	0.000
10	28.17	34.47	21.963	586.7	0.059	10	28.54	34.43	21.811	601.2	0.060	10	28.54	34.43	21.811	601.2	0.060
20	27.96	34.52	22.069	576.5	0.117	20	28.34	34.42	21.869	595.6	0.120	20	28.34	34.42	21.869	595.6	0.120
30	27.81	34.57	22.155	568.2	0.174	30	28.20	34.42	21.915	591.2	0.190	30	28.20	34.42	21.915	591.2	0.190
40	27.68	34.59	22.212	562.8	0.231	40	28.07	34.42	21.958	587.1	0.239	40	28.07	34.42	21.958	587.1	0.239
50	27.59	34.60	22.249	559.2	0.287	50	28.03	34.43	21.978	585.2	0.298	50	28.03	34.43	21.978	585.2	0.298
75	27.45	34.60	22.294	554.9	0.427	75	27.73	34.53	22.151	568.6	0.442	75	27.73	34.53	22.151	568.6	0.442
100	27.01	34.76	22.556	529.9	0.564	100	27.16	34.75	22.500	535.2	0.581	100	27.16	34.75	22.500	535.2	0.581
125	25.60	34.99	23.171	471.1	0.690	125	26.62	34.90	22.785	508.0	0.713	125	26.62	34.90	22.785	508.0	0.713
150	23.75	35.06	23.781	412.8	0.802	150	23.45	34.99	23.786	412.4	0.849	150	23.45	34.99	23.786	412.4	0.849
175	20.57	35.03	24.652	329.6	0.896	175	20.22	34.86	24.616	333.2	0.924	175	20.22	34.86	24.616	333.2	0.924
200	18.41	34.83	25.059	291.0	0.975	200	17.59	34.71	25.218	276.0	1.002	200	17.59	34.71	25.218	276.0	1.002
225	14.69	34.54	25.704	229.7	1.042	225	14.70	34.55	25.709	229.2	1.066	225	14.70	34.55	25.709	229.2	1.066
250	12.88	34.49	26.041	197.7	1.097	250	13.15	34.48	25.979	203.6	1.122	250	13.15	34.48	25.979	203.6	1.122
275	11.11	34.34	26.262	176.7	1.146	275	11.24	34.34	26.236	179.6	1.172	275	11.24	34.34	26.236	179.6	1.172
300	10.55	34.36	26.378	165.8	1.190	300	9.94	34.34	26.467	157.2	1.215	300	9.94	34.34	26.467	157.2	1.215
350	9.18	34.40	26.640	140.8	1.270	350	8.78	34.45	26.743	131.1	1.291	350	8.78	34.45	26.743	131.1	1.291
400	8.61	34.50	26.809	124.8	1.340	400	8.19	34.48	26.858	120.2	1.357	400	8.19	34.48	26.858	120.2	1.357
450	7.76	34.48	26.922	114.1	1.404	450	7.54	34.49	26.962	110.3	1.418	450	7.54	34.49	26.962	110.3	1.418
500	7.16	34.50	27.024	104.4	1.462	500	7.09	34.50	27.034	103.5	1.475	500	7.09	34.50	27.034	103.5	1.475
550	6.64	34.49	27.088	98.4	1.517	550	6.62	34.49	27.090	98.1	1.530	550	6.62	34.49	27.090	98.1	1.530
600	6.37	34.51	27.139	93.5	1.569	600	6.26	34.51	27.154	92.1	1.582	600	6.26	34.51	27.154	92.1	1.582
650	6.17	34.51	27.166	91.0	1.620	650	5.97	34.51	27.191	88.4	1.631	650	5.97	34.51	27.191	88.4	1.631
700	5.88	34.51	27.202	87.5	1.669	700	5.84	34.51	27.208	87.0	1.679	700	5.84	34.51	27.208	87.0	1.679
750	5.71	34.51	27.224	85.5	1.717	750	5.57	34.52	27.249	83.1	1.727	750	5.57	34.52	27.249	83.1	1.727
800	5.46	34.52	27.262	81.8	1.764	800	5.25	34.52	27.288	79.5	1.772	800	5.25	34.52	27.288	79.5	1.772
850	5.28	34.52	27.284	79.8	1.809	850	4.89	34.53	27.337	74.7	1.815	850	4.89	34.53	27.337	74.7	1.815
900	4.94	34.53	27.332	75.3	1.853	900	4.63	34.54	27.375	71.2	1.857	900	4.63	34.54	27.375	71.2	1.857
950	4.69	34.53	27.360	72.6	1.895	950	4.40	34.55	27.408	68.0	1.896	950	4.40	34.55	27.408	68.0	1.896
100	4.44	34.54	27.396	69.2	1.945	1000	4.21	34.55	27.428	66.1	1.935	1000	4.21	34.55	27.428	66.1	1.935
1100	3.90	34.56	27.469	62.3	1.956	1100	3.90	34.56	27.469	62.3	2.008	1100	3.90	34.56	27.469	62.3	2.008
1200	3.53	34.57	27.514	58.0	2.026	1200	3.60	34.58	27.515	57.9	2.078	1200	3.60	34.58	27.515	57.9	2.078
1300	3.24	34.59	27.558	53.8	2.092	1300	3.39	34.58	27.536	56.0	2.145	1300	3.39	34.58	27.536	56.0	2.145
1387	3.02	34.60	27.586	51.2	2.146	1400	2.96	34.59	27.584	51.4	2.209	1400	2.96	34.59	27.584	51.4	2.209
						1500	2.77	34.60	27.609	49.0	2.268	1500	2.77	34.60	27.609	49.0	2.268
						1600	2.587	34.612	27.634	46.6	2.326	1600	2.587	34.612	27.634	46.6	2.326
						1700	2.422	34.622	27.657	44.5	2.380	1700	2.422	34.622	27.657	44.5	2.380
						1800	2.276	34.631	27.676	42.7	2.433	1800	2.276	34.631	27.676	42.7	2.433
						1900	2.145	34.636	27.691	41.3	2.484	1900	2.145	34.636	27.691	41.3	2.484
						2000	2.025	34.645	27.707	39.7	2.534	2000	2.025	34.645	27.707	39.7	2.534
						2100	1.945	34.649	27.717	38.8	2.582	2100	1.945	34.649	27.717	38.8	2.582
						2200	1.903	34.653	27.723	38.2	2.630	2200	1.903	34.653	27.723	38.2	2.630
						2300	1.866	34.654	27.727	37.8	2.677	2300	1.866	34.654	27.727	37.8	2.677
						2400	1.806	34.661	27.737	36.9	2.724	2400	1.806	34.661	27.737	36.9	2.724
						2500	1.740	34.665	27.745	36.1	2.770	2500	1.740	34.665	27.745	36.1	2.770
						2600	1.720	34.667	27.749	35.8	2.815	2600	1.720	34.667	27.749	35.8	2.815
						2700	1.708	34.666	27.749	35.8	2.861	2700	1.708	34.666	27.749	35.8	2.861
						2800	1.669	34.668	27.753	35.3	2.907	2800	1.669	34.668	27.753	35.3	2.907
						2900	1.645	34.669	27.756	35.1	2.952	2900	1.645	34.669	27.756	35.1	2.952
						3000	1.635	34.669	27.756	35.0	2.997	3000	1.635	34.669	27.756	35.0	2.997
						3100	1.609	34.672	27.761	34.6	3.043	3100	1.609	34.672	27.761	34.6	3.043
						3200	1.589	34.674	27.764	34.3	3.088	3200	1.589	34.674	27.764	34.3	3.088
						3300	1.567	34.676	27.767	34.0	3.133	3300	1.567	34.676	27.767	34.0	3.133
						3400	1.543	34.679	27.771	33.6	3.177	3400	1.543	34.679	27.771	33.6	3.177
						3500	1.526	34.681	27.774	33.4	3.222	3500	1.526	34.681	27.774	33.4	3.222
						3600	1.523	34.682	27.775	33.3	3.267	3600	1.523	34.682	27.775	33.3	3.267
						3700	1.522	34.683	27.776	33.2	3.311	3700	1.522	34.683	27.776	33.2	3.311
						3800	1.512	34.684	27.778	33.0	3.356	3800	1.512	34.684	27.778	33.0	3.356
						3900	1.513	34.685	27.778	33.0	3.401	3900	1.513	34.685	27.778	33.0	3.401
						4000	1.485	34.687	27.782	32.6	3.446	4000	1.485	34.687	27.782	32.6	3.446
						4100	1.483	34.689	27.784	32.5	3.491	4100	1.483	34.689	27.784	32.5	3.491
						4200	1.485	34.689	27.784	32.5	3.536	4200	1.485	34.689	27.784	32.5	3.536
						4300	1.495	34.690	27.784	32.5	3.582	4300	1.495	34.690	27.784	32.5	3.582
						4400	1.480	34.692	27.786	32.2	3.627	4400	1.480	34.692	27.786	32.2	3.627
						4500	1.465	34.694	27.789	32.0	3.673	4500	1.465	34.694	27.789	32.0	3.673
						4600	1.466	34.695	27.790	31.9	3.718	4600	1.466	34.695	27.790	31.9	3.718
						4700	1.465	34.696	27.791	31.8	3.763	4700	1.465	34.696	27.791	31.8	3.763
						4800	1.477	34.696	27.790	31.9	3.809	4800	1.477	34.696	27.790	31.9	3.809
						4900	1.480	34.697	27.790	31.8	3.856	4900	1.480	34.697	27.790	31.8	3.856
						5000	1.484	34.698	27.791	31.8	3.902	5000	1.484	34.698	27.791	31.8	3.902
						5100	1.476	34.699	27.792	31.7	3.949	5100	1.476	34.699	27.792	31.7	3.949
						5200	1.485	34.699	27.791	31.7	3.995	5200	1.485	34.699	27.791	31.7	3.995

RV THOMAS WASHINGTON

INDOFAC LEG III

	LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT	WAVES				
	12 59.8N	138 58.9E	5/29/76	0625 0855	GMT	5000M	070	FKT	1	070	3 10				
Z	T	S	02	P04	S103	N02	N03	DT	Z	T	S	02	S101	DT	CU
0	28.84	34.420	4.55	0.06	2.	0.0	611.5	0	28.84	34.420	4.55	1.764	611.5	0.000	
10	28.45	34.399	4.61	0.08	2.	0.0	600.6	10	28.45	34.399	4.61	2.817	600.6	0.061	
31	27.86	34.412	4.63	0.08	2.	0.0	581.1	20	28.11	34.402	4.61	21.450	589.8	0.120	
45	27.81	34.414	4.63	0.06	2.	0.0	579.4	30	27.88	34.411	4.61	22.014	581.8	0.179	
60	27.77	34.415	4.59	0.10	2.	0.0	578.1	50	27.80	34.415	4.58	22.043	579.0	0.295	
81	27.31	34.660	4.70	0.14	2.	0.0	546.3	75	27.45	34.581	4.67	22.279	556.4	0.423	
100	27.17	34.810	4.66	0.10	2.	0.0	531.2	100	27.17	34.810	4.66	22.542	531.2	0.575	
121	26.77	34.898	4.65	0.10	2.	0.0	512.7	125	26.61	34.918	4.62	22.803	506.3	0.706	
140	25.77	34.990	4.46	0.10	2.	0.0	476.1	150	24.95	35.023	4.34	25.396	449.6	0.826	
170	22.96	35.004	4.11	0.16	3.	1.0	392.3	200	19.60	35.910	3.94	24.617	314.1	1.021	
201	19.49	34.905	3.94	0.36	5.	4.3	311.7	250	15.19	34.631	4.00	25.665	233.5	1.061	
235	16.05	34.685	4.06	0.57	9.	7.3	247.9	300	12.60	34.465	3.36	26.078	194.2	1.272	
275	14.05	34.545	3.89	0.89	14.	12.0	216.4	400	8.72	34.325	2.25	26.655	139.5	1.446	
321	11.42	34.413	2.88	1.51	27.	21.6	176.8	500	7.48	35.419	1.61	26.314	114.9	1.581	
365	9.02	34.312	2.40	1.99	42.	27.0	144.9	600	6.39	34.428	1.71	27.072	99.9	1.697	
486	7.66	34.418	1.61	2.41	56.	33.4	117.3	700	5.57	34.474	1.75	27.212	66.6	1.794	
551	6.88	34.413	1.71	2.41	64.	36.5	107.2	800	4.91	34.517	1.87	27.324	76.0	1.889	
655	5.92	34.452	1.70	2.59	78.	36.6	92.3	1000	4.15	34.546	2.04	27.432	65.8	2.049	
817A	4.92	34.523	1.90	2.59	94.	38.5	74.5	1200	3.54	34.568	2.07	27.510	58.4	2.198	
1017A	4.10	34.546	2.05	2.58	108.	38.6	65.3	1500	2.63	34.597	2.24	27.600	49.8	2.304	
1256A	3.39	34.572	2.07	2.63	124.	39.6	56.6	1750	2.43	34.616	2.40	27.650	45.1	2.527	
1505A	2.82	34.596	2.24	2.67	136.	39.2	48.7	2000	2.11	34.636	2.60	27.693	40.5	2.650	
1809A	2.36	34.619	2.24	2.67	144.	39.0	40.2	2250	1.90	34.647	2.63	27.719	36.2	2.761	
2102A	2.00	34.642	2.73	3.00	152.	38.6	35.0	2500	1.77	34.667	2.62	27.735	37.0	2.899	
2404A	1.82	34.653	2.88	2.53	155.	39.0	37.6	2750	1.67	34.665	3.02	27.750	35.6	3.014	
2702A	1.692	34.663	3.00	2.49	156.	38.1	35.9	3000	1.59	34.673	3.13	27.762	34.5	3.127	
3002A	1.594	34.672	3.13	2.49	156.	37.8	34.5	3250	1.55	34.678	3.30	27.769	33.8	3.236	
3301A	1.539	34.678	3.34	2.41	153.	37.1	33.7	3500	1.52	34.681	3.44	27.774	33.4	3.349	
3551A	1.518	34.681	3.46	2.40	152.	36.9	33.3	3750	1.51	34.685	3.47	27.777	33.0	3.461	
3751A	1.512	34.684	3.47	2.46	152.	36.6	33.0	4000	1.52	34.686	3.54	27.779	32.9	3.574	
3951A	1.514	34.685	3.53	2.37	152.	36.6	33.0	4250	1.52	34.690	3.60	27.782	32.7	3.688	
4142A	1.518	34.688	3.56	2.44	152.	36.3	32.8	4500	1.50	34.692	3.71	27.784	32.4	3.803	
4392A	1.512	34.691	3.66	2.45	149.	35.9	32.5	4750	1.49	34.694	3.84	27.787	32.2	3.918	
4697A	1.488	34.693	4.030	2.35	146.	35.8	32.2	5000	1.50	34.696	3.99	27.788	32.1	4.035	

HV THOMAS WASHINGTON

INDOPAC LEG III

	LATITUDE		LONGITUDE		MO/DAY/YR		MFSSSENGER		TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES		
	13 03.0N		136 29.5E		5/29/76		2344 0239		GMT	5461M	070	4KT	1	070 2 8		
Z	T	S	02	P04	S103	N02	N03	LT	Z	T	S	02	S10T	0T	DD	
0	29.02	34.295	4.55	0.08	1.	0.00	0.0	626.2	0	29.02	34.29F	4.55	21.550	626.2	0.000	
20	28.39	34.356	4.70	0.09	1.	0.00	0.0	601.8	10	28.64	34.316	4.64	21.691	612.7	0.062	
41	28.26	34.503	4.74	0.09	1.	0.00	0.0	587.1	20	28.39	34.356	4.70	21.905	601.6	0.123	
62	27.52	34.707	4.93	0.06	0.	0.00	0.0	549.4	30	26.33	34.419	4.72	21.370	595.5	0.163	
87	27.01	34.812	4.88	0.04	0.	0.00	0.0	526.2	50	27.96	34.594	4.83	22.123	571.3	0.300	
112	26.15	34.963	4.64	0.07	0.	0.00	0.0	489.3	75	27.25	34.769	4.90	22.480	536.7	0.489	
132	25.45	35.012	4.51	0.08	0.	0.03	0.0	465.1	100	26.59	34.693	4.76	22.791	507.4	0.570	
152	25.45	35.049	4.25	0.12	1.	0.05	0.6	413.9	125	25.35	35.007	4.56	23.132	474.8	0.694	
171	22.36	35.015	4.12	0.20	2.	0.10	1.7	377.8	150	23.95	35.047	4.28	23.713	419.3	0.867	
201	19.86	34.895	3.95	0.36	4.	0.06	4.2	321.6	200	19.95	34.899	3.25	24.719	323.5	0.996	
231	17.40	34.788	4.16	0.43	5.	0.08	6.1	270.5	250	15.68	34.662	4.22	25.578	241.7	1.141	
271	13.99	34.533	2.99	0.70	11.	0.38	8.5	216.1	300	12.71	34.662	4.13	26.035	198.3	1.255	
310	12.36	34.410	4.29	1.05	18.	0.01	14.6	173.9	400	9.30	34.410	2.15	26.628	142.0	1.433	
345A	10.71	34.320	3.53	1.40	24.	0.00	16.9	171.2	500	7.40	34.411	1.67	26.919	114.4	1.569	
419	8.98	34.451	1.71	2.26	44.	0.14	31.9	134.0	600	6.36	34.412	1.69	27.062	100.8	1.685	
510	7.25	34.400	1.66	2.49	59.	0.00	33.7	113.1	700	5.57	34.461	1.80	27.202	87.6	1.788	
546A	6.87	34.394	1.65	2.52	65.	0.00	34.8	108.5	800	4.99	34.504	1.91	27.376	77.7	1.860	
745A	6.87	34.489	1.87	2.65	86.	0.00	37.4	82.1	1000	4.17	34.336	2.02	27.421	66.8	2.043	
995A	4.19	34.535	2.02	2.74	106.	0.00	38.6	67.0	1200	3.47	34.562	2.16	27.512	58.2	2.187	
1245A	3.34	34.566	2.17	2.70	125.	0.00	38.1	56.6	1500	2.73	34.597	2.31	27.609	49.0	2.376	
1544A	2.65	34.600	2.34	2.52	139.	0.02	38.6	46.0	1750	2.33	34.622	2.49	27.663	43.9	2.515	
1843A	2.22	34.629	2.56	2.41	146.	0.01	38.1	42.4	2000	2.05	34.641	2.69	27.701	40.3	2.643	
2141A	1.93	34.647	2.80	2.49	151.	0.01	38.6	38.8	2250	1.87	34.650	2.87	27.723	38.1	2.764	
2440A	1.80	34.656	2.98	2.54	153.	0.01	38.0	37.2	2500	1.78	34.658	3.01	27.737	36.9	2.861	
2738A	1.69	34.664	3.11	2.50	154.	0.00	38.0	35.8	2750	1.69	34.665	3.12	27.749	35.7	2.997	
2987A	1.617	34.671	3.23	2.54	153.	0.02	37.4	34.7	3000	1.61	34.672	3.24	27.760	34.7	3.110	
3186A	1.577	34.675	3.36	2.49	152.	0.02	37.1	34.2	3250	1.57	34.677	3.40	27.767	34.0	3.222	
3385A	1.550	34.678	3.48	2.46	151.	0.00	36.8	33.7	3500	1.53	34.680	3.52	27.773	33.5	3.334	
3585A	1.516	34.681	3.54	2.41	150.	0.01	36.3	33.3	3750	1.49	34.685	3.63	27.779	32.9	3.446	
3833A	1.488	34.686	3.67	2.40	148.	0.00	36.1	32.7	4000	1.49	34.688	3.71	27.782	32.6	3.557	
4133A	1.503	34.689	3.73	2.41	147.	0.00	35.8	32.6	4250	1.51	34.690	3.75	27.782	32.6	3.671	
4433A	1.523	34.689	3.77	2.40	147.	0.00	36.2	32.7	4500	1.53	34.689	3.77	27.780	32.8	3.786	
4734A	1.557	34.687	3.76	2.40	146.	0.01	35.5	33.1	4750	1.56	34.688	3.76	27.777	33.1	3.905	
5035A	1.590	34.690	3.78	2.44	146.	0.00	36.1	33.1	5000	1.59	34.690	3.78	27.777	33.1	4.026	
5338A	1.632	34.689	3.86	2.40	146.	0.00	35.6	33.5	5250	1.62	34.690	3.83	27.774	33.3	4.151	

23 D

INDOPAC LEG III

24 DU

LATITUDE 12 59.6N	LONGITUDE 138 58.9E	MO/DAY/YR 05/29/76	START TIME 0454 GMT	LATITUDE 13 03.0N	LONGITUDE 136 29.5E	MO/DAY/YR 05/30/76	START TIME 0017 GMT				
Z		SIGMA T	DT	UD	Z	T	S	SIGMA T	DT	UD	
0	28.87	34.43	21.701	611.7	0.000	0	28.91	34.33	21.613	620.2	0.000
10	28.53	34.42	21.807	601.6	0.061	10	28.80	34.35	21.665	615.2	0.062
20	27.90	34.41	21.986	584.4	0.120	20	28.55	34.40	21.785	603.7	0.124
30	27.86	34.42	22.026	580.6	0.178	30	28.38	34.44	21.871	595.4	0.183
40	27.82	34.43	22.047	578.6	0.237	40	28.37	34.51	21.927	590.1	0.242
50	27.80	34.43	22.053	578.0	0.295	50	28.21	34.55	22.010	582.2	0.302
75	27.62	34.52	22.179	565.9	0.438	75	27.41	34.75	22.420	542.9	0.442
100	27.18	34.79	22.524	532.9	0.576	100	26.92	34.68	22.674	518.5	0.576
125	26.66	34.93	22.795	507.0	0.708	125	25.96	35.01	23.075	480.3	0.702
150	25.30	35.04	23.301	458.7	0.830	150	24.71	35.08	23.510	438.7	0.818
175	23.23	35.09	23.956	396.2	0.938	175	22.36	35.10	24.212	371.7	0.921
200	18.83	34.87	24.984	298.2	1.027	200	20.54	34.95	24.600	334.8	1.011
225	17.02	34.75	25.337	264.7	1.099	225	17.70	34.82	25.227	275.1	1.089
250	15.47	34.64	25.609	238.7	1.163	250	15.64	34.65	25.679	241.6	1.156
275	14.01	34.53	25.841	216.7	1.222	275	13.73	34.50	25.876	213.4	1.214
300	13.41	34.50	25.942	207.1	1.277	300	12.51	34.42	26.060	195.9	1.267
350	11.00	34.41	26.336	169.7	1.375	350	10.25	34.30	26.383	165.2	1.361
400	9.14	34.32	26.584	146.2	1.458	400	8.92	34.39	26.674	137.6	1.441
450	8.48	34.44	26.782	127.4	1.531	450	8.30	34.44	26.810	124.7	1.510
500	7.53	34.40	26.893	116.9	1.596	500	7.30	34.39	26.918	114.5	1.574
550	6.87	34.40	26.986	108.1	1.656	550	6.68	34.40	27.012	105.6	1.633
600	6.24	34.42	27.086	98.6	1.712	600	6.28	34.42	27.080	99.1	1.689
650	5.79	34.44	27.159	91.7	1.764	650	5.98	34.44	27.135	93.9	1.741
700	5.45	34.47	27.224	85.5	1.813	700	5.64	34.47	27.201	87.7	1.791
750	5.22	34.48	27.259	82.1	1.859	750	5.29	34.48	27.251	82.9	1.838
800	5.03	34.51	27.306	77.8	1.903	800	5.09	34.49	27.283	79.4	1.884
850	4.74	34.51	27.339	74.6	1.946	850	4.91	34.51	27.319	76.4	1.927
900	4.56	34.52	27.367	72.0	1.987	900	4.71	34.52	27.350	73.5	1.970
950	4.38	34.53	27.394	69.3	2.027	950	4.46	34.53	27.386	70.2	2.010
1000	4.19	34.54	27.423	66.6	2.066	1000	4.29	34.54	27.412	67.7	2.050
1100	3.81	34.55	27.470	62.2	2.140	1100	3.94	34.55	27.457	63.4	2.125
1200	3.50	34.56	27.509	58.5	2.210	1200	3.58	34.56	27.504	58.9	2.196
1300	3.25	34.57	27.541	55.4	2.277	1300	3.30	34.57	27.536	55.9	2.263
1400	2.97	34.58	27.575	52.2	2.340	1400	3.07	34.58	27.566	53.1	2.327
1500	2.79	34.59	27.599	49.9	2.400	1500	2.80	34.59	27.594	50.0	2.389
1600	2.624	34.603	27.624	47.6	2.459	1600	2.591	34.601	27.625	47.5	2.447
1700	2.464	34.613	27.646	45.5	2.515	1700	2.454	34.610	27.644	45.7	2.503
1800	2.337	34.618	27.660	44.1	2.569	1800	2.318	34.618	27.662	44.0	2.557
1900	2.209	34.625	27.677	42.6	2.622	1900	2.222	34.626	27.676	42.6	2.610
2000	2.100	34.635	27.693	41.0	2.673	2000	2.109	34.633	27.691	41.2	2.661
2100	1.987	34.641	27.707	39.7	2.722	2100	2.006	34.640	27.705	39.9	2.711
2200	1.929	34.645	27.715	39.0	2.771	2200	1.921	34.646	27.716	38.8	2.760
2300	1.869	34.650	27.724	38.1	2.819	2300	1.871	34.649	27.723	38.2	2.807
2400	1.818	34.653	27.730	37.6	2.866	2400	1.814	34.653	27.730	37.5	2.855
2500	1.769	34.658	27.738	36.8	2.913	2500	1.775	34.656	27.736	37.0	2.902
2600	1.724	34.662	27.744	36.2	2.959	2600	1.733	34.660	27.742	36.4	2.948
2700	1.700	34.665	27.748	35.8	3.005	2700	1.700	34.663	27.747	35.9	2.994
2800	1.673	34.667	27.752	35.5	3.051	2800	1.674	34.665	27.750	35.6	3.040
2900	1.645	34.670	27.757	35.0	3.096	2900	1.657	34.667	27.753	35.3	3.085
3000	1.609	34.674	27.762	34.5	3.141	3000	1.627	34.670	27.758	34.9	3.131
3100	1.581	34.676	27.766	34.1	3.186	3100	1.608	34.672	27.761	34.6	3.176
3200	1.567	34.678	27.769	33.9	3.230	3200	1.593	34.673	27.763	34.4	3.221
3300	1.548	34.680	27.772	33.6	3.275	3300	1.580	34.674	27.765	34.3	3.267
3400	1.546	34.681	27.773	33.5	3.319	3400	1.559	34.677	27.769	33.9	3.312
3500	1.529	34.683	27.775	33.2	3.363	3500	1.551	34.678	27.770	33.8	3.357
3600	1.526	34.684	27.777	33.1	3.408	3600	1.534	34.679	27.772	33.6	3.402
3700	1.516	34.685	27.778	33.0	3.453	3700	1.516	34.681	27.775	33.3	3.447
3800	1.517	34.685	27.778	33.0	3.497	3800	1.502	34.683	27.778	33.0	3.492
3900	1.516	34.685	27.778	33.0	3.542	3900	1.505	34.684	27.778	33.0	3.537
4000	1.515	34.687	27.780	32.8	3.588	4000	1.498	34.685	27.779	32.9	3.582
4100	1.515	34.687	27.780	32.8	3.633	4100	1.501	34.685	27.779	32.9	3.627
4200	1.519	34.688	27.780	32.8	3.679	4200	1.506	34.686	27.780	32.8	3.673
4300	1.515	34.687	27.780	32.6	3.725	4300	1.513	34.687	27.780	32.8	3.719
4400	1.508	34.690	27.783	32.6	3.771	4400	1.521	34.687	27.779	32.9	3.765
4500	1.497	34.691	27.784	32.4	3.817	4500	1.531	34.687	27.779	32.9	3.812
4600	1.477	34.693	27.787	32.1	3.863	4600	1.542	34.688	27.779	32.9	3.859
4700	1.483	34.693	27.787	32.2	3.909	4700	1.553	34.688	27.778	33.0	3.906
4800	1.494	34.692	27.785	32.3	3.955	4800	1.563	34.688	27.777	33.1	3.954
4900	1.506	34.691	27.784	32.5	4.002	4900	1.576	34.688	27.776	33.2	4.003
5000	1.511	34.691	27.783	32.5	4.050	5000	1.586	34.689	27.776	33.2	4.051
5042	1.510	34.691	27.783	32.5	4.070	5100	1.599	34.690	27.776	33.2	4.101
						5200	1.611	34.690	27.775	33.3	4.150
						5300	1.624	34.690	27.774	33.4	4.201
						5365	1.632	34.691	27.774	33.3	4.233

RV THOMAS WASHINGTON

INDOFAC LEG III

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LATITUDE		LONGITUDE		MO/DAY/YR		MESSENGER		TIME	BOTTOM		WIND	SPEED	WEATHER	DOMINANT WAVES			
12 59.3N		133 58.2E		5/30/76		1659 2037		GMT	5517M		040	8KT	1	060 2 8			
Z	T	S	Q2	P04	S103	N02	N03	DT	Z	T	S	Q2	SIGT	DT	GO		
0	28.77	34.486	4.53	0.08	1.	0.00	0.0	604.5	0	28.77	34.486	4.53	21.776	604.5	0.000		
26	28.36	34.474	4.59	0.05	1.	0.00	0.0	592.4	10	28.61	34.480	4.55	21.825	599.8	0.060		
50	28.02	34.481	4.64	0.09	1.	0.00	0.0	581.2	20	28.45	34.476	4.58	21.874	595.2	0.120		
76	27.15	34.676	4.70	0.08	1.	0.00	0.0	540.2	30	28.32	34.470	4.60	21.913	591.4	0.179		
100	26.86	34.753	4.70	0.08	1.	0.00	0.0	525.8	50	28.02	34.481	4.64	22.020	581.2	0.297		
126	26.08	34.921	4.51	0.08	1.	0.00	0.0	490.3	75	27.18	34.668	4.70	22.431	541.8	0.458		
151	24.38	34.945	4.16	0.22	2.	0.14	0.9	438.4	100	26.86	34.753	4.70	22.598	525.8	0.572		
181	21.04	34.938	3.91	0.36	4.	0.00	3.0	348.5	125	26.12	34.914	4.7	22.952	492.0	0.701		
211	18.17	34.799	3.76	0.54	7.	0.00	7.0	287.6	150	24.47	34.946	4.17	23.462	441.4	0.819		
251	14.64	34.602	3.35	1.05	15.	0.00	14.3	224.2	200	19.18	34.858	3.82	24.085	397.6	1.009		
300	12.07	34.433	3.08	1.41	23.	0.00	19.6	186.9	250	14.72	34.608	3.36	25.749	225.5	1.146		
351	9.75	34.308	2.79	1.69	34.	0.00	25.1	156.6	300	12.07	34.433	3.08	26.155	186.9	1.253		
410	8.14	34.334	1.89	2.26	50.	0.00	32.2	130.3	400	8.35	34.324	2.04	26.711	134.1	1.421		
499	7.02	34.403	1.57	2.48	62.	0.00	36.5	109.8	500	7.01	34.404	1.57	26.964	109.6	1.550		
598	6.18	34.440	1.66	2.56	72.	0.00	37.8	96.4	600	6.17	34.441	1.66	27.112	96.1	1.661		
747	5.25	34.496	1.85	2.64	84.	0.00	38.6	81.1	700	5.50	34.441	1.79	27.224	81.5	1.760		
897A	4.67	34.522	1.94		97.		37.2	73.0	800	5.05	34.504	1.89	27.303	78.0	1.851		
999	4.20	34.540	1.99	2.71	104.		39.6	66.8	1000	4.20	34.541	1.99	27.422	66.7	2.014		
1096A	3.86	34.553	2.02	2.44	113.		38.6	62.4	1200	3.56	34.564	2.09	27.506	58.7	2.159		
1347A	3.19	34.577	2.19	2.76	127.		38.4	54.4	1500	2.84	34.594	2.26	27.597	50.2	2.351		
1596A	2.65	34.602	2.31	2.39	138.		39.0	47.9	1750	2.41	34.617	2.42	27.685	44.3	2.494		
1896A	2.23	34.627	2.54	2.31	146.		38.6	42.6	2000	2.12	34.632	2.62	27.689	41.3	2.628		
2197A	1.94	34.643	2.76	2.37	150.		38.8	39.2	2250	1.90	34.646	2.79	27.717	38.7	2.749		
2497A	1.75	34.657	2.93	2.33	152.		37.9	36.8	2500	1.75	34.654	2.93	27.738	35.7	2.867		
2797A	1.65	34.664	3.15	2.22	152.		37.7	35.5	2750	1.66	34.663	3.12	27.749	35.7	2.981		
3098A	1.563	34.673	3.74U	2.41	150.		36.8	34.2	3000	1.59	34.675	3.27	27.761	34.6	3.094		
3397A	1.565	34.674	3.44	2.40	149.		36.6	34.2	3250	1.56	34.674	3.39	27.765	34.2	3.206		
3695A	1.566	34.678	3.48	2.42	149.		36.5	33.9	3500	1.57	34.676	3.45	27.767	34.1	3.319		
3946A	1.574	34.680	3.66	2.34	148.		35.3	33.8	3750	1.57	34.679	3.53	27.769	33.8	3.435		
4146A	1.588	34.680	3.56	2.46	148.		35.8	33.9	4000	1.58	34.681	3.64	27.770	33.8	3.546		
4345A	1.615	34.680	3.54	2.47	148.		36.4	34.1	4250	1.60	34.681	3.55	27.768	34.0	3.668		
4595A	1.644	34.681	3.29U	2.48	148.		35.7	34.2	4500	1.63	34.681	3.54	27.766	34.1	3.769		
4895A	1.679	34.680	3.55	2.46	148.		35.7	34.5	4750	1.66	34.681	3.55	27.764	34.3	3.913		
5196A	1.718	34.682	3.61	2.43	148.		36.8	34.6	5000	1.69	34.681	3.57	27.762	34.5	4.040		

RV THOMAS WASHINGTON

INDOFAC LEG III

26

	LATITUDE		LONGITUDE		MO/DAY/YR		MESSENGER		TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES			
	13 00.5N		132 29. E		5/31/76		0548 0849		GMT	5717M	040	11KT	1	070 2 4			
Z	T	S	Q2	P04	S103	N02	N03	DT	Z	T	S	Q2	SIGT	DT	GO		
0	29.25	34.449	4.61	0.11	2.	0.00	0.0	622.5	0	29.25	34.449	4.61	21.588	622.5	0.000		
26	28.44	34.449	4.65	0.09	2.	0.00	0.0	596.7	10	28.90	34.435	4.62	21.694	612.4	0.062		
51	27.94	34.560	4.70	0.09	2.	0.00	0.0	573.0	20	28.60	34.439	4.64	21.797	602.5	0.123		
77	27.37	34.585	4.81	0.10	2.	0.00	0.0	553.5	30	28.35	34.467	4.66	21.900	592.7	0.182		
101	26.69	34.675	4.76	0.08	2.	0.00	0.0	526.3	50	27.96	34.556	4.70	22.096	573.9	0.299		
126	25.88	34.827	4.64	0.08	2.	0.01	0.0	491.1	75	27.42	34.585	4.60	22.292	555.1	0.441		
151	24.58	35.012	4.29	0.19	2.	0.03	0.4	439.8	100	26.72	34.671	4.76	22.580	527.6	0.577		
180	22.68	34.988	4.10	0.25	3.	0.06	0.8	388.5	125	25.92	34.820	4.65	22.945	492.7	0.766		
211	19.55	34.903	3.92	0.39	5.	0.11	4.8	313.4	150	24.64	35.006	4.30	23.476	442.0	0.824		
241	16.95	34.746	3.98	0.59	8.	0.04	7.4	263.4	200	20.70	34.937	3.97	24.547	359.8	1.023		
271	14.89	34.589	3.95	0.78	12.	0.11	10.6	230.3	250	16.31	34.701	3.97	25.464	282.5	1.175		
300	12.73	34.443	3.62	1.16	19.	0.11	15.6	198.3	300	12.73	34.443	3.62	26.035	198.3	1.291		
340	10.64	34.315	3.33	1.56	29.	0.03	20.4	170.6	400	8.90	34.285	2.60	26.594	145.2	1.471		
402	8.87	34.286	2.57	2.02	43.	0.00	27.3	144.6	500	7.44	34.414	1.62	26.916	114.6	1.609		
453	8.33	34.412	1.65	2.41	50.	0.00	33.1	127.3	600	6.28	34.428	1.69	27.087	95.5	1.724		
495A	7.52	34.414	1.62	2.44	58.	0.01	33.4	115.7	700	5.49	34.474	1.81	27.222	85.7	1.824		
607	6.22	34.429	1.69	2.73U	74.	0.00	36.2	97.7	800	4.93	34.504	1.91	27.315	76.9	1.914		
694A	5.53	34.471	1.80	2.36	83.		36.8	86.3	1000	4.14	34.544	2.06	27.431	68.9	2.076		
945A	4.34	34.537	2.03	2.58	104.		37.6	68.4	1200	3.54	34.562	2.15	27.506	58.4	2.219		
1194A	3.56	34.561	2.15	2.61	122.		39.0	59.0	1500	2.83	34.591	2.33	27.595	48.1	2.412		
1495A	2.84	34.589	2.33	2.37U	137.		39.2	50.4	1750	2.45	34.612	2.50	27.645	45.5	2.556		
1795A	2.39	34.614	2.53	2.61	146.		39.2	44.8	2000	2.15	34.627	2.65	27.683	41.9	2.689		
2095A	2.03	34.634	2.71	2.58	152.		38.6	40.7	2250	1.92	34.647	2.82	27.712	39.1	2.814		
2396A	1.83	34.650	2.92	2.61	154.		38.5	37.9	2500	1.77	34.654	2.99	27.733	37.2	2.933		
2696A	1.69	34.660	3.10	2.57	155.		37.9	36.1	2750	1.67	34.662	3.13	27.748	35.4	3.049		
2996A	1.60	34.668	3.26	2.54	154.		37.9	34.9	3000	1.60	34.665	3.26	27.758	34.6	3.162		
3297A	1.571	34.673	3.41	2.56	153.		37.3	34.3	3250	1.57	34.673	3.39	27.763	34.3	3.275		
3547A	1.544	34.678	3.47	2.52	151.		36.3	33.7	3500	1.55	34.678	3.46	27.769	33.8	3.388		
3748A	1.543	34.680	3.49	2.58	151.		36.2	33.6	3750	1.54	34.681	3.49	27.772	33.6	3.501		
3947A	1.560	34.680	3.50	2.54	151.		36.7	33.7	4000	1.57	34.680	3.51	27.770	33.7	3.617		
4199A	1.592	34.679	3.55	2.53	150.		35.8	34.0	4250	1.60	34.680	3.56	27.768	34.0	3.735		
4499A	1.620	34.681	3.58	2.61	150.		35.8	34.0	4500	1.62	34.682	3.58	27.767	34.0	3.854		
4801A	1.664	34.681	3.56	2.58	150.		36.8	34.3	4750	1.66	34.682	3.57	27.764	34.3	3.979		
5101A	1.701	34.681	3.57	2.61	150.		36.1	34.6	5000	1.69	34.682	3.57	27.762	34.5	4.106		
5402A	1.734	34.682	3.55	2.58	150.		35.8	34.7	5250	1.72	34.682	3.56	27.760	34.7	4.236		
5703A	1.779	34.682	3.57	2.58	150.		36.0	35.1	5500	1.75	34.683	3.55	27.758	34.6	4.369		

25 D						INDOPAC LEG III						26 D					
LATITUDE	LONGITUDE	MO/DAY/YR	START TIME			LATITUDE	LONGITUDE	MO/DAY/YR	START TIME			LATITUDE	LONGITUDE	MO/DAY/YR	START TIME		
12 59.3N	133 58.2E	05/30/76	1517 GMT			13 00.5N	132 29.1E	05/31/76	0626 GMT								
Z	T	S	SIGMA T	DT	DO	Z	T	S	SIGMA T	DT	DO	Z	T	S	SIGMA T	DT	DO
0	28.97	34.51	21.728	609.1	0.000	0	29.50	34.43	21.557	625.5	0.000	0	29.50	34.43	21.557	625.5	0.000
10	28.93	34.52	21.749	607.2	0.061	10	29.30	34.43	21.557	625.5	0.065	10	29.30	34.43	21.557	625.5	0.065
20	28.74	34.53	21.819	600.4	0.121	20	29.32	34.44	21.558	625.4	0.125	20	29.32	34.44	21.558	625.4	0.125
30	28.46	34.52	21.905	592.2	0.181	30	29.10	34.46	21.647	616.9	0.187	30	29.10	34.46	21.647	616.9	0.187
40	28.31	34.51	21.947	588.2	0.240	40	28.04	34.58	22.088	574.7	0.247	40	28.04	34.58	22.088	574.7	0.247
50	28.18	34.52	21.997	583.4	0.299	50	27.96	34.60	22.129	570.8	0.305	50	27.96	34.60	22.129	570.8	0.305
75	27.48	34.64	22.315	553.0	0.442	75	27.51	34.63	22.297	554.6	0.446	75	27.51	34.63	22.297	554.6	0.446
100	27.08	34.71	22.496	535.6	0.579	100	26.80	34.70	22.577	527.8	0.582	100	26.80	34.70	22.577	527.8	0.582
125	26.84	34.78	22.625	523.3	0.712	125	26.00	34.85	22.942	493.0	0.711	125	26.00	34.85	22.942	493.0	0.711
150	26.29	34.92	22.904	496.6	0.841	150	24.53	35.07	23.557	454.2	0.828	150	24.53	35.07	23.557	454.2	0.828
175	24.68	34.97	23.436	445.7	0.960	175	22.92	35.04	24.007	391.3	0.953	175	22.92	35.04	24.007	391.3	0.953
200	21.93	34.96	24.227	370.3	1.064	200	20.32	34.98	24.681	327.0	1.024	200	20.32	34.98	24.681	327.0	1.024
225	19.18	34.84	24.872	308.9	1.151	225	18.02	34.90	25.209	276.8	1.102	225	18.02	34.90	25.209	276.8	1.102
250	16.99	34.73	25.328	265.4	1.225	250	16.06	34.68	25.807	248.5	1.169	250	16.06	34.68	25.807	248.5	1.169
275	15.30	34.62	25.632	236.6	1.289	275	13.90	34.52	25.856	215.3	1.229	275	13.90	34.52	25.856	215.3	1.229
300	13.68	34.56	25.933	208.0	1.347	300	12.39	34.43	26.091	193.0	1.282	300	12.39	34.43	26.091	193.0	1.282
350	11.33	34.36	26.237	179.1	1.448	350	9.99	34.30	26.428	161.0	1.374	350	9.99	34.30	26.428	161.0	1.374
400	9.28	34.31	26.554	149.0	1.534	400	8.90	34.28	26.591	145.5	1.455	400	8.90	34.28	26.591	145.5	1.455
450	8.14	34.33	26.748	130.6	1.608	450	8.34	34.40	26.772	128.3	1.527	450	8.34	34.40	26.772	128.3	1.527
500	7.27	34.36	26.899	118.3	1.674	500	7.40	34.40	26.912	115.1	1.592	500	7.40	34.40	26.912	115.1	1.592
550	6.78	34.41	27.006	106.2	1.733	550	6.82	34.40	26.993	107.4	1.652	550	6.82	34.40	26.993	107.4	1.652
600	6.35	34.44	27.087	98.5	1.789	600	6.30	34.42	27.078	99.3	1.708	600	6.30	34.42	27.078	99.3	1.708
650	6.03	34.44	27.128	94.5	1.841	650	5.97	34.45	27.144	93.1	1.760	650	5.97	34.45	27.144	93.1	1.760
700	5.71	34.46	27.184	89.2	1.892	700	5.52	34.47	27.216	86.3	1.809	700	5.52	34.47	27.216	86.3	1.809
750	5.37	34.48	27.242	83.8	1.939	750	5.23	34.48	27.258	82.2	1.856	750	5.23	34.48	27.258	82.2	1.856
800	5.12	34.50	27.287	79.5	1.985	800	4.96	34.50	27.306	77.7	1.900	800	4.96	34.50	27.306	77.7	1.900
850	4.91	34.51	27.319	76.4	2.029	850	4.76	34.51	27.336	74.8	1.943	850	4.76	34.51	27.336	74.8	1.943
900	4.65	34.52	27.357	72.9	2.071	900	4.56	34.52	27.367	72.0	1.984	900	4.56	34.52	27.367	72.0	1.984
950	4.38	34.53	27.394	69.3	2.111	950	4.30	34.53	27.403	68.5	2.024	950	4.30	34.53	27.403	68.5	2.024
1000	4.20	34.54	27.422	66.8	2.150	1000	4.15	34.54	27.427	66.3	2.062	1000	4.15	34.54	27.427	66.3	2.062
1100	3.86	34.55	27.465	62.6	2.224	1100	3.75	34.55	27.476	61.6	2.136	1100	3.75	34.55	27.476	61.6	2.136
1200	3.58	34.56	27.501	59.2	2.295	1200	3.43	34.56	27.516	57.8	2.205	1200	3.43	34.56	27.516	57.8	2.205
1300	3.30	34.57	27.536	55.9	2.362	1300	3.22	34.57	27.544	55.2	2.271	1300	3.22	34.57	27.544	55.2	2.271
1400	3.09	34.58	27.564	53.3	2.427	1400	2.94	34.58	27.573	52.4	2.334	1400	2.94	34.58	27.573	52.4	2.334
1500	2.83	34.59	27.596	50.3	2.488	1500	2.79	34.59	27.599	49.9	2.395	1500	2.79	34.59	27.599	49.9	2.395
1600	2.639	34.602	27.622	47.8	2.547	1600	2.623	34.598	27.620	47.9	2.453	1600	2.623	34.598	27.620	47.9	2.453
1700	2.472	34.612	27.644	45.7	2.603	1700	2.531	34.605	27.634	46.7	2.510	1700	2.531	34.605	27.634	46.7	2.510
1800	2.380	34.619	27.658	44.4	2.657	1800	2.381	34.611	27.651	45.0	2.566	1800	2.381	34.611	27.651	45.0	2.566
1900	2.266	34.626	27.674	42.8	2.711	1900	2.252	34.622	27.671	43.2	2.619	1900	2.252	34.622	27.671	43.2	2.619
2000	2.132	34.633	27.689	41.4	2.762	2000	2.155	34.629	27.684	41.9	2.671	2000	2.155	34.629	27.684	41.9	2.671
2100	2.036	34.639	27.702	40.2	2.812	2100	2.072	34.631	27.692	41.1	2.722	2100	2.072	34.631	27.692	41.1	2.722
2200	1.944	34.643	27.712	39.2	2.862	2200	1.971	34.639	27.707	39.7	2.772	2200	1.971	34.639	27.707	39.7	2.772
2300	1.867	34.649	27.723	38.2	2.910	2300	1.887	34.646	27.719	38.6	2.821	2300	1.887	34.646	27.719	38.6	2.821
2400	1.808	34.654	27.731	37.4	2.957	2400	1.844	34.650	27.726	38.0	2.869	2400	1.844	34.650	27.726	38.0	2.869
2500	1.756	34.658	27.739	36.7	3.004	2500	1.772	34.654	27.733	37.2	2.916	2500	1.772	34.654	27.733	37.2	2.916
2600	1.714	34.661	27.744	36.2	3.050	2600	1.747	34.657	27.738	36.7	2.963	2600	1.747	34.657	27.738	36.7	2.963
2700	1.671	34.664	27.750	35.7	3.095	2700	1.712	34.661	27.744	36.2	3.009	2700	1.712	34.661	27.744	36.2	3.009
2800	1.645	34.666	27.753	35.3	3.141	2800	1.672	34.663	27.749	35.7	3.055	2800	1.672	34.663	27.749	35.7	3.055
2900	1.613	34.669	27.758	34.9	3.186	2900	1.642	34.667	27.754	35.2	3.101	2900	1.642	34.667	27.754	35.2	3.101
3000	1.590	34.671	27.761	34.6	3.230	3000	1.615	34.669	27.756	34.9	3.146	3000	1.615	34.669	27.756	34.9	3.146
3100	1.574	34.671	27.763	34.5	3.275	3100	1.590	34.672	27.762	34.5	3.191	3100	1.590	34.672	27.762	34.5	3.191
3200	1.571	34.674	27.765	34.2	3.320	3200	1.581	34.673	27.764	34.3	3.236	3200	1.581	34.673	27.764	34.3	3.236
3300	1.572	34.674	27.765	34.2	3.365	3300	1.580	34.674	27.765	34.3	3.281	3300	1.580	34.674	27.765	34.3	3.281
3400	1.570	34.675	27.766	34.1	3.410	3400	1.564	34.675	27.767	34.1	3.327	3400	1.564	34.675	27.767	34.1	3.327
3500	1.567	34.676	27.767	34.0	3.455	3500	1.556	34.676	27.768	34.0	3.372	3500	1.556	34.676	27.768	34.0	3.372
3600	1.569	34.677	27.768	34.0	3.501	3600	1.558	34.677	27.769	33.9	3.417	3600	1.558	34.677	27.769	33.9	3.417
3700	1.574	34.677	27.767	34.0	3.547	3700	1.560	34.677	27.768	33.9	3.463	3700	1.560	34.677	27.768	33.9	3.463
3800	1.570	34.678	27.769	33.9	3.593	3800	1.562	34.678	27.769	33.4	3.509	3800	1.562	34.678	27.769	33.4	3.509
3900	1.573	34.679	27.769	33.8	3.640	3900	1.567	34.678	27.769	33.9	3.555	3900	1.567	34.678	27.769	33.9	3.555
4000	1.580	34.679	27.769	33.9	3.686	4000	1.575	34.675	27.765	33.4	3.602	4000	1.575	34.675	27.765	33.4	3.602
4100	1.587	34.680	27.769	33.9	3.733	4100	1.583	34.679	27.768	33.9	3.649	4100	1.583	34.679	27.768	33.9	3.649
4200	1.596	34.680	27.768	33.9	3.781	4200	1.593	34.679	27.768	34.0	3.696	4200	1.593	34.679	27.768	34.0	3.696
4300	1.606	34.681	27.768	33.9	3.829	4300	1.603	34.679	27.767	34.0	3.744	4300	1.603	34.679	27.767	34.0	3.744
4400	1.616	34.681	27.768	34.0	3.877	4400	1.614	34.679	27.766	34.1	3.793	4400	1.614	34.679	27.766	34.1	3.793
4500	1.628	34.681	27.767	34.1	3.926	4500	1.626	34.679	27.765	34.2	3.842	4500	1.626	34.679	27.765		

RV THOMAS WASHINGTON

INDOPAC LEG III

27

LATITUDE 12 59.2N		LONGITUDE 130 47.7E		MO/DAY/YR 5/31/76		MESSENGER 1935 2320		TIME GMT	BOTTOM 5939M		WIND 110	SPEED KNT	WEATHER 1	SURFACE WAVES 110 2 4			
Z	T	S	02	P04	S103	N02	N03	DT	Z	T	S	02	SIGT	DT	UD		
0	28.82	34.403	4.55	0.12	2.	0.00	0.1	612.0	0	28.82	34.403	4.55	21.698	612.0	0.000		
10	28.81	34.403	4.58	0.12	2.	0.00	0.1	611.7	10	28.81	34.403	4.58	21.701	611.7	0.061		
20	28.70	34.402	4.57	0.09	2.	0.00	0.1	608.3	20	28.70	34.402	4.57	21.757	608.3	0.122		
31	28.55	34.396	4.55	0.09	2.	0.00	0.1	604.0	30	28.56	34.397	4.55	21.777	604.4	0.183		
50	28.24	34.435	4.63	0.12	1.	0.00	0.1	591.4	50	28.24	34.435	4.63	21.913	591.4	0.303		
75	27.84	34.517	4.68	0.09	2.	0.00	0.1	573.0	75	27.84	34.517	4.68	22.106	573.0	0.449		
100	27.28	34.608	4.67	0.08	2.	0.00	0.1	549.1	100	27.28	34.608	4.67	22.355	549.1	0.590		
125	27.03	34.819	4.66	0.13	2.	0.00	0.1	526.3	125	27.03	34.819	4.66	22.594	526.3	0.726		
174	25.48	34.963	4.02	0.28	3.	0.06	1.3	412.3	150	25.51	34.925	4.36	23.151	473.0	0.852		
248	17.00	34.740	3.78	0.60	8.	0.03	7.4	264.9	200	21.18	34.899	3.69	24.389	354.9	1.062		
346	11.10	34.365	3.29	1.45	26.	0.07	19.6	174.7	250	16.85	34.736	3.78	25.361	262.3	1.221		
443	8.21	34.398	1.64	2.32	50.	0.13	31.9	126.6	300	13.49	34.523	3.61	25.943	207.0	1.342		
540	6.63	34.418	1.60	2.62	68.	0.03	35.4	103.6	400	9.23	34.371	2.34	26.609	143.8	1.525		
687	5.38	34.481	1.82	2.69	85.	0.01	37.5	83.9	500	7.17	34.412	1.62	26.984	111.1	1.661		
835	4.64	34.524	1.99	2.71	96.	0.00	38.8	72.5	600	6.01	34.444	1.67	27.134	94.0	1.771		
984	4.01	34.548	2.06	2.73	110.	0.03	38.2	64.3	700	5.30	34.486	1.64	27.254	82.6	1.868		
1096A	3.71	34.556	2.04	2.55	116.		37.1	60.7	800	4.79	34.517	1.96	27.338	74.7	1.955		
1296A	3.20	34.584	2.11	2.40	126.		36.3	53.9	1000	3.96	34.550	2.06	27.454	63.7	2.111		
1496A	2.78	34.599	2.26	2.63	135.		37.7	49.2	1200	3.44	34.571	2.06	27.522	57.1	2.251		
1695A	2.47	34.616	2.45	2.55	141.		38.8	45.3	1500	2.77	34.601	2.26	27.606	49.1	2.338		
1944A	2.17	34.634	2.61	2.48	146.		38.2	41.6	1750	2.40	34.620	2.49	27.656	44.4	2.378		
2194A	1.94	34.647	2.75	2.49	150.		38.2	38.9	2000	2.11	34.637	2.64	27.693	40.9	2.709		
2443A	1.78	34.657	2.94	2.48	152.		37.7	37.0	2250	1.90	34.658	2.79	27.720	38.4	2.831		
2743A	1.67	34.665	3.10	2.43	152.		37.2	35.6	2500	1.75	34.659	2.97	27.739	36.7	2.949		
3041A	1.61	34.673	3.25	2.36	151.		36.9	34.5	2750	1.67	34.666	3.10	27.751	35.6	3.063		
3340A	1.56	34.676	3.41	2.38	149.		37.1	34.0	3000	1.62	34.672	3.23	27.760	34.7	3.176		
3639A	1.548	34.680	3.45	2.45	149.		36.2	33.6	3250	1.57	34.676	3.37	27.766	34.1	3.269		
3888A	1.565	34.684	3.48	2.39	149.		36.1	33.4	3500	1.55	34.679	3.44	27.770	33.7	3.401		
4088A	1.574	34.682	3.55	2.48	149.		35.6	33.6	3750	1.56	34.683	3.46	27.773	33.5	3.515		
4287A	1.599	34.682	3.55	2.45	149.		36.4	33.8	4000	1.57	34.684	3.52	27.772	33.5	3.630		
4486A	1.624	34.684	3.49	2.46	149.		35.2	33.8	4250	1.59	34.683	3.55	27.770	33.8	3.747		
4786A	1.658	34.684	3.50	2.44	149.		34.9	34.1	4500	1.63	34.685	3.49	27.769	33.6	3.868		
5086A	1.697	34.685	3.54	2.49	149.		36.1	34.2	4750	1.65	34.685	3.50	27.767	34.0	3.991		
5386A	1.736	34.686	3.51	2.49	149.		35.6	34.5	5000	1.69	34.685	3.53	27.765	34.2	4.117		
5634A	1.769	34.686	3.53	2.52	149.		34.6	34.7	5250	1.72	34.686	3.52	27.763	34.4	4.247		
5882A	1.805	34.684	3.55	2.49	149.		36.2	35.1	5500	1.75	34.687	3.52	27.761	34.5	4.379		
									5750	1.79	34.686	3.54	27.758	34.9	4.515		

RV THOMAS WASHINGTON

INDOPAC LEG III

28

LATITUDE		LONGITUDE		MO/DAY/YR		MESSENGER		TIME	BOTTOM		WIND	SPEED	WEATHER	SURFACE WAVES	
13 01.1N		128 58.0E		6/ 1/76		1024 1350		GMT	5737M		070	2KT	1		
Z	T	S	02	P04	S103	N02	N03	DT	Z	T	S	02	SIGT	DT	
0	28.72	34.247	4.63	0.03	2.	0.0	0.0	620.1	0	28.72	34.247	4.63	21.614	620.1	
26	28.22	34.386	4.65	0.01	2.	0.0	0.0	594.3	10	28.49	34.313	4.64	21.740	608.0	
50	28.06	34.423	4.65	0.03	2.	0.0	0.0	586.6	20	28.31	34.364	4.65	21.838	596.6	
75	27.78	34.487	4.70	0.03	2.	0.0	0.0	573.3	30	28.17	34.395	4.65	21.900	592.6	
100	26.84	34.681	4.70	0.04	2.	0.0	0.0	530.4	50	28.06	34.423	4.65	21.963	586.6	
120	26.10	34.840	4.64	0.01	2.	0.0	0.0	496.7	75	27.78	34.487	4.70	22.103	573.3	
139	25.45	34.973	4.44	0.06	2.	0.0	0.0	467.9	100	26.84	34.681	4.70	22.350	530.4	
155	24.12	35.036	4.23	0.12	2.	0.0	0.0	425.0	125	25.98	34.879	4.60	22.972	490.1	
169	23.00	35.030	4.12	0.17	2.	1.1	394.2	150	24.57	35.022	4.29	23.508	438.9		
190	21.08	34.971	3.99	0.32	3.	2.9	347.2	200	20.04	34.929	4.01	24.722	323.1		
209	19.09	34.892	4.05	0.40	5.	4.2	302.9	250	16.18	34.690	4.07	25.486	250.4		
239	16.87	34.740	4.03	0.54	8.	6.7	262.0	300	13.79	34.515	4.00	25.875	213.5		
269	15.13	34.611	4.14	0.69	11.	8.4	233.7	400	9.59	34.319	2.63	26.508	153.4		
309	13.43	34.489	3.96	0.93	16.	13.2	208.3	500	7.40	34.384	1.67	26.899	116.3		
359	11.09	34.369	3.17	1.52	27.	18.6	174.3	600	6.38	34.423	1.63	27.070	100.1		
418	9.05	34.309	2.42	2.41	41.	25.9	145.6	700	5.71	34.460	1.72	27.185	89.2		
497	7.44	34.382	1.67	2.45	58.	34.2	117.0	800	5.08	34.495	1.85	27.267	79.5		
622	6.24	34.426	1.62	2.71	73.	35.8	98.2	1000	4.14	34.544	2.06	27.431	65.9		
746	5.43	34.478	1.80	2.65	85.	36.0	84.7	1200	3.41	34.570	2.13	27.525	57.0		
851A	4.78	34.508	1.90	2.59	96.	32.3	75.2	1500	2.79	34.598	2.30	27.605	49.4		
944	4.41	34.535	2.04	2.63	102.	38.3	69.3	1750	2.36	34.617	2.50	27.657	44.4		
1050A	3.90	34.549	2.07	2.43	113.	35.3	63.1	2000	2.06	34.635	2.70	27.695	40.7		
1251A	3.28	34.574	2.16	2.54	126.	36.5	55.4	2250	1.84	34.651	2.88	27.726	37.8		
1450A	2.89	34.593	2.26	2.62	135.	37.2	50.6	2500	1.73	34.661	3.00	27.742	36.4		
1701A	2.43	34.613	2.46	2.63	143.	34.9	45.2	2750	1.65	34.668	3.17	27.754	35.2		
1950A	2.12	34.631	2.66	2.51	149.	33.8	41.5	3000	1.59	34.672	3.29	27.762	34.5		
2199A	1.87	34.649	2.85	2.59	153.	34.4	38.2	3250	1.55	34.675	3.38	27.767	34.0		
2498A	1.73	34.660	3.00	2.41	154.	35.0	36.4	3500	1.54	34.679	3.45	27.771	33.6		
2798A	1.64	34.669	3.20	2.46	153.	36.9	35.1	3750	1.55	34.682	3.53	27.773	33.4		
3098A	1.57	34.673	3.32	2.42	152.	37.5	34.3	4000	1.57	34.684	3.52	27.773	33.4		
3396A	1.541	34.677	3.43	2.49	152.	36.3	33.8	4250	1.59	34.685	3.50	27.772	33.6		
3645A	1.543	34.681	3.48	2.41	150.	35.7	33.5	4500	1.62	34.685	3.54	27.770	33.8		
3845A	1.547	34.682	3.56	2.53	150.	35.4	33.4	4750	1.65	34.685	3.55	27.768	34.0		
4044A	1.572	34.684	3.50	2.49	150.	35.9	33.5	5000	1.69	34.685	3.56	27.765	34.3		
4245A	1.588	34.684	3.50	2.51	150.	36.8	33.6	5250	1.72	34.686	3.56	27.763	34.4		
4543A	1.623	34.684	3.55	2.53	150.	35.5	33.8	5500	1.75	34.685	3.57	27.760	34.6		
4842A	1.660	34.684	3.55	2.51	150.	36.6	34.1								
5142A	1.719	34.685	3.56	2.54	150.	34.3	34.4								
5391A	1.732	34.685	3.56	2.54	150.	34.0	34.5								
5639A	1.777	34.684	3.59	2.51	149.	31.4	34.9								

27 DU						INDOPAC LEG 111						28 DU					
LATITUDE	LONGITUDE	MO/DAY/YR	START TIME			LATITUDE	LONGITUDE	MO/DAY/YR	START TIME			LATITUDE	LONGITUDE	MO/DAY/YR	START TIME		
12 59.2N	130 47.7E	05/31/76	2015 GMT			13 01.1N	128 56.6E	06/01/76	1113 GMT								
Z	T	S	SIGMA T	DT	DD	Z	T	S	SIGMA T	DT	DD	Z	T	S	SIGMA T	DT	DD
0	28.78	34.42	21.724	609.6	0.000	0	28.70	34.37	21.713	610.6	0.000	0	28.70	34.37	21.713	610.6	0.000
10	28.77	34.44	21.742	607.8	0.061	10	28.58	34.41	21.783	603.9	0.061	10	28.58	34.41	21.783	603.9	0.061
20	28.64	34.45	21.793	602.9	0.121	20	28.31	34.43	21.887	593.9	0.121	20	28.31	34.43	21.887	593.9	0.121
30	28.55	34.44	21.815	600.8	0.182	30	28.20	34.43	21.923	590.5	0.180	30	28.20	34.43	21.923	590.5	0.180
40	28.42	34.47	21.880	594.5	0.242	40	28.15	34.44	21.947	588.2	0.239	40	28.15	34.44	21.947	588.2	0.239
50	28.21	34.46	21.942	588.6	0.301	50	28.09	34.46	21.981	584.9	0.298	50	28.09	34.46	21.981	584.9	0.298
75	27.71	34.57	22.188	565.1	0.446	75	27.87	34.50	22.083	575.1	0.444	75	27.87	34.50	22.083	575.1	0.444
100	27.20	34.66	22.420	542.9	0.585	100	27.24	34.63	22.384	546.3	0.585	100	27.24	34.63	22.384	546.3	0.585
125	26.75	34.87	22.721	514.1	0.719	125	26.59	34.81	22.727	513.6	0.718	125	26.59	34.81	22.727	513.6	0.718
150	25.14	34.93	23.267	461.9	0.842	150	25.36	35.02	23.268	461.9	0.842	150	25.36	35.02	23.268	461.9	0.842
175	23.06	35.03	23.959	395.8	0.951	175	23.08	35.09	24.008	391.2	0.950	175	23.08	35.09	24.008	391.2	0.950
200	20.40	34.97	24.652	329.8	1.043	200	20.38	34.99	24.673	327.8	1.041	200	20.38	34.99	24.673	327.8	1.041
225	18.64	34.86	25.024	294.4	1.123	225	18.33	34.88	25.117	285.5	1.120	225	18.33	34.88	25.117	285.5	1.120
250	16.26	34.69	25.468	252.1	1.193	250	16.45	34.70	25.432	255.6	1.189	250	16.45	34.70	25.432	255.6	1.189
275	14.77	34.60	25.733	227.0	1.255	275	15.09	34.61	25.671	232.9	1.253	275	15.09	34.61	25.671	232.9	1.253
300	13.35	34.50	25.954	205.9	1.311	300	14.12	34.55	25.853	217.4	1.311	300	14.12	34.55	25.853	217.4	1.311
350	10.97	34.36	26.303	172.9	1.410	350	11.71	34.38	26.182	184.3	1.415	350	11.71	34.38	26.182	184.3	1.415
400	8.75	34.29	26.623	142.5	1.493	400	9.86	34.32	26.465	157.4	1.505	400	9.86	34.32	26.465	157.4	1.505
450	8.10	34.40	26.809	124.8	1.563	450	8.22	34.35	26.752	130.3	1.581	450	8.22	34.35	26.752	130.3	1.581
500	7.17	34.39	26.936	112.8	1.627	500	7.35	34.38	26.903	115.9	1.647	500	7.35	34.38	26.903	115.9	1.647
550	6.58	34.42	27.041	102.9	1.685	550	6.66	34.39	27.006	106.1	1.706	550	6.66	34.39	27.006	106.1	1.706
600	6.06	34.44	27.125	94.9	1.738	600	6.27	34.41	27.074	99.7	1.762	600	6.27	34.41	27.074	99.7	1.762
650	5.65	34.46	27.192	88.5	1.788	650	5.94	34.44	27.140	93.5	1.814	650	5.94	34.44	27.140	93.5	1.814
700	5.30	34.48	27.250	83.0	1.835	700	5.59	34.45	27.191	88.6	1.864	700	5.59	34.45	27.191	88.6	1.864
750	5.01	34.50	27.300	78.3	1.880	750	5.37	34.47	27.234	84.6	1.912	750	5.37	34.47	27.234	84.6	1.912
800	4.75	34.51	27.338	74.7	1.922	800	5.14	34.48	27.268	81.2	1.958	800	5.14	34.48	27.268	81.2	1.958
850	4.53	34.53	27.378	70.9	1.963	850	4.85	34.50	27.318	76.5	2.002	850	4.85	34.50	27.318	76.5	2.002
900	4.37	34.54	27.403	68.5	2.002	900	4.56	34.52	27.367	72.0	2.044	900	4.56	34.52	27.367	72.0	2.044
950	4.16	34.54	27.426	66.4	2.041	950	4.36	34.53	27.396	69.1	2.084	950	4.36	34.53	27.396	69.1	2.084
1000	3.95	34.55	27.456	63.5	2.078	1000	4.17	34.53	27.417	67.2	2.123	1000	4.17	34.53	27.417	67.2	2.123
1100	3.62	34.56	27.497	59.6	2.148	1100	3.79	34.54	27.464	62.7	2.197	1100	3.79	34.54	27.464	62.7	2.197
1200	3.35	34.58	27.539	55.6	2.215	1200	3.44	34.56	27.515	57.9	2.267	1200	3.44	34.56	27.515	57.9	2.267
1300	3.17	34.59	27.564	53.2	2.279	1300	3.16	34.58	27.557	53.9	2.332	1300	3.16	34.58	27.557	53.9	2.332
1400	2.92	34.59	27.587	51.0	2.340	1400	2.94	34.58	27.578	52.0	2.395	1400	2.94	34.58	27.578	52.0	2.395
1500	2.77	34.60	27.609	49.0	2.400	1500	2.73	34.59	27.604	49.4	2.455	1500	2.73	34.59	27.604	49.4	2.455
1600	2.594	34.609	27.631	46.9	2.457	1600	2.595	34.601	27.625	47.5	2.511	1600	2.595	34.601	27.625	47.5	2.511
1700	2.464	34.616	27.648	45.3	2.512	1700	2.444	34.610	27.645	45.6	2.568	1700	2.444	34.610	27.645	45.6	2.568
1800	2.355	34.623	27.663	43.9	2.567	1800	2.306	34.619	27.664	43.8	2.622	1800	2.306	34.619	27.664	43.8	2.622
1900	2.234	34.631	27.679	42.3	2.619	1900	2.179	34.626	27.680	42.3	2.675	1900	2.179	34.626	27.680	42.3	2.675
2000	2.116	34.637	27.694	41.0	2.670	2000	2.083	34.631	27.692	41.2	2.726	2000	2.083	34.631	27.692	41.2	2.726
2100	2.033	34.642	27.704	40.0	2.720	2100	1.988	34.638	27.705	39.9	2.775	2100	1.988	34.638	27.705	39.9	2.775
2200	1.941	34.647	27.716	38.9	2.769	2200	1.895	34.647	27.719	38.6	2.824	2200	1.895	34.647	27.719	38.6	2.824
2300	1.854	34.653	27.727	37.8	2.817	2300	1.831	34.652	27.728	37.7	2.871	2300	1.831	34.652	27.728	37.7	2.871
2400	1.806	34.656	27.733	37.2	2.864	2400	1.788	34.655	27.734	37.2	2.918	2400	1.788	34.655	27.734	37.2	2.918
2500	1.764	34.659	27.739	36.7	2.910	2500	1.740	34.659	27.741	36.5	2.964	2500	1.740	34.659	27.741	36.5	2.964
2600	1.722	34.662	27.744	36.2	2.956	2600	1.694	34.663	27.747	35.9	3.010	2600	1.694	34.663	27.747	35.9	3.010
2700	1.687	34.665	27.749	35.7	3.002	2700	1.668	34.665	27.749	35.7	3.055	2700	1.668	34.665	27.749	35.7	3.055
2800	1.655	34.668	27.754	35.3	3.047	2800	1.650	34.667	27.754	35.3	3.101	2800	1.650	34.667	27.754	35.3	3.101
2900	1.640	34.669	27.756	35.1	3.093	2900	1.620	34.670	27.758	34.8	3.146	2900	1.620	34.670	27.758	34.8	3.146
3000	1.615	34.672	27.760	34.7	3.138	3000	1.597	34.672	27.762	34.5	3.191	3000	1.597	34.672	27.762	34.5	3.191
3100	1.594	34.674	27.764	34.4	3.183	3100	1.581	34.674	27.765	34.3	3.235	3100	1.581	34.674	27.765	34.3	3.235
3200	1.580	34.675	27.765	34.2	3.227	3200	1.574	34.675	27.766	34.1	3.280	3200	1.574	34.675	27.766	34.1	3.280
3300	1.571	34.677	27.768	34.0	3.272	3300	1.565	34.676	27.767	34.0	3.325	3300	1.565	34.676	27.767	34.0	3.325
3400	1.562	34.678	27.769	33.8	3.317	3400	1.559	34.678	27.769	33.8	3.370	3400	1.559	34.678	27.769	33.8	3.370
3500	1.559	34.679	27.770	33.7	3.362	3500	1.555	34.678	27.770	33.8	3.415	3500	1.555	34.678	27.770	33.8	3.415
3600	1.560	34.679	27.770	33.7	3.408	3600	1.551	34.680	27.771	33.6	3.460	3600	1.551	34.680	27.771	33.6	3.460
3700	1.562	34.680	27.771	33.7	3.453	3700	1.556	34.680	27.771	33.6	3.506	3700	1.556	34.680	27.771	33.6	3.506
3800	1.564	34.680	27.771	33.7	3.499	3800	1.556	34.681	27.772	33.6	3.551	3800	1.556	34.681	27.772	33.6	3.551
3900	1.570	34.681	27.771	33.7	3.545	3900	1.565	34.681	27.771	33.6	3.597	3900	1.565	34.681	27.771	33.6	3.597
4000	1.576	34.681	27.770	33.7	3.592	4000	1.572	34.681	27.771	33.7	3.644	4000	1.572	34.681	27.771	33.7	3.644
4100	1.586	34.681	27.770	33.6	3.639	4100	1.581	34.681	27.770	33.7	3.691	4100	1.581	34.681	27.770	33.7	3.691
4200	1.594	34.681	27.769	33.8	3.686	4200	1.591	34.681	27.769	33.8	3.738	4200	1.591	34.681	27.769	33.8	3.738
4300	1.604	34.681	27.768	33.9	3.734	4300	1.601	34.682	27.769	33.8	3.786	4300	1.601	34.682	27.769	33.8	3.786
4400	1.614	34.681	27.768	34.0	3.782	4400	1.611	34.681	27.768	34.0	3.834	4400	1.611	34.681	27.768	34.0	3.834
4500	1.626	34.681	27.767	34.1	3.831	4500	1.623	34.681	27.767	34.0	3.882	4500	1.623	34.681	27.		

LATITUDE		LONGITUDE		MO/DAY/YR		MESSENGER		TIME	BOTTOM		WIND	SPEED	WEATHER	DOMINANT WAVES		
12 59.4N		127 42.8E		6/ 1/76		2226 0211		GMT	5442M		080	FKT	1	090 2 3		
Z	T	S	02	P04	S103	N02	N03	DT	Z	T	S	02	S10T	DT	DD	
1	28.48	34.389	4.66	0.09	2.	0.00	0.0	602.3	0	28.48	34.389	4.66	21.800	602.3	0.000	
10	28.39	34.386	4.67	0.08	2.	0.00	0.0	599.6	10	28.39	34.386	4.67	21.827	599.6	0.060	
30	28.13	34.371	4.71	0.08	2.	0.00	0.1	592.5	20	28.25	34.379	4.69	21.867	595.9	0.120	
50	28.08	34.376	4.72	0.09	2.	0.00	0.1	590.6	30	28.15	34.371	4.71	21.901	592.5	0.179	
70	27.96	34.392	4.67	0.10	2.	0.00	0.1	585.7	50	28.08	34.376	4.72	21.921	590.6	0.298	
89	27.66	34.489	4.72	0.10	2.	0.03	0.1	569.4	75	27.69	34.414	4.68	22.012	582.0	0.445	
119	27.17	34.647	4.74	0.06	2.	0.03	0.1	542.9	100	27.52	34.543	4.73	22.229	561.2	0.589	
138	26.53	34.786	4.67	0.10	2.	0.02	0.1	513.5	125	27.03	34.690	4.73	22.457	555.5	0.727	
168	25.76	35.026	4.35	0.14	2.	0.02	0.7	415.6	150	25.54	34.891	4.55	23.116	476.3	0.855	
208	20.40	34.962	4.16	0.28	4.	0.02	3.0	330.4	200	21.04	34.996	4.18	24.499	344.4	1.064	
257	16.77	34.742	4.32	0.48	7.	0.02	6.7	259.6	250	17.27	34.781	4.31	25.300	268.1	1.221	
297	13.82	34.514	3.86	0.84	14.	0.01	12.4	214.1	300	13.61	34.500	3.62	25.901	211.0	1.344	
336	11.34	34.370	3.34	1.39	24.	0.01	19.6	178.5	400	9.07	34.353	2.23	26.621	142.7	1.529	
425	8.57	34.374	1.85	2.21	46.	0.01	32.5	133.6	500	7.46	34.472	1.59	26.959	110.6	1.664	
516	7.31	34.490	1.53	2.52	56.	0.01	37.3	107.2	600	6.56	34.506	1.63	27.111	96.2	1.776	
615	6.45	34.503	1.65	2.60	65.		38.3	95.0	700	5.81	34.503	1.78	27.206	87.2	1.877	
795	5.18	34.502	1.90	2.65	86.		39.6	80.0	800	5.15	34.503	1.90	27.286	79.6	1.969	
895A	4.62	34.517	1.95		99.		37.1	72.8	1000	4.16	34.537	2.00	27.423	66.6	2.134	
1096A	3.82	34.554	2.05	2.45	114.		37.6	62.0	1200	3.50	34.568	2.09	27.515	56.0	2.278	
1345A	3.12	34.580	2.17	2.76	130.		37.7	53.5	1500	2.79	34.597	2.31	27.603	49.5	2.468	
1596A	2.62	34.604	2.39	2.49	159.		38.8	47.5	1750	2.36	34.616	2.47	27.654	44.7	2.609	
1846A	2.25	34.621	2.52	2.52	147.		38.1	43.2	2000	2.08	34.632	2.66	27.692	41.0	2.740	
2096A	1.99	34.639	2.74	2.45	150.		38.5	39.9	2250	1.88	34.646	2.81	27.719	38.4	2.862	
2346A	1.82	34.651	2.85	2.33	152.		37.7	37.7	2500	1.74	34.657	2.96	27.739	36.6	2.979	
2596A	1.70	34.661	3.03	2.28	153.		37.5	36.1	2750	1.66	34.665	3.12	27.751	35.5	3.094	
2847A	1.64	34.667	3.18	2.54	152.		37.5	35.2	3000	1.59	34.671	3.27	27.760	34.7	3.206	
3097A	1.57	34.672	3.32	2.49	152.		37.6	34.3	3250	1.46	34.675	3.37	27.766	34.1	3.318	
3347A	1.555	34.676	3.39	2.49	151.		36.8	33.9	3500	1.55	34.678	3.43	27.769	33.8	3.431	
3597A	1.545	34.678	3.46	2.43	151.		35.6	33.7	3750	1.55	34.680	3.52	27.772	33.6	3.544	
3797A	1.545	34.680	3.53	2.46	150.		34.8	33.6	4000	1.56	34.681	3.51	27.771	33.7	3.659	
3998A	1.561	34.680	3.51	2.47	150.		35.4	33.7	4250	1.59	34.681	3.53	27.769	33.8	3.777	
4199A	1.581	34.680	3.53	2.50	150.		34.5	33.8	4500	1.62	34.683	3.55	27.768	33.9	3.897	
4449A	1.610	34.682	3.55	2.51	150.		34.7	33.9	4750	1.65	34.682	3.55	27.765	34.2	4.021	
4700A	1.642	34.681	3.55	2.44	150.		36.3	34.2	5000	1.68	34.683	3.54	27.764	34.3	4.147	
4950A	1.675	34.682	3.54	2.50	149.		35.3	34.3	5250	1.71	34.683	3.56	27.762	34.5	4.277	
5201A	1.704	34.683	3.55	2.43	149.		35.4	34.5								
5401A	1.734	34.681	3.61	2.44	149.		36.7	34.8								

	LATITUDE		LONGITUDE		MO/DAY/YR		MESSENGER		TIME	BOTTOM		WIND	SPEED	WEATHER	DOMINANT WAVES		
	12 59.4N		126 40. E		6/ 2/76		0948 1244		GMT	5374M		110	10KT	1			
Z	T	S	02	P04	S103	N02	N03	DT	Z	T	S	02	S10T	DT	DD		
0	28.48	34.478	4.67	0.05	2.		0.2	595.9	0	28.48	34.478	4.67	21.867	595.9	0.000		
26	28.01	34.465	4.71	0.06	2.		0.2	582.0	10	28.26	34.472	4.69	21.934	589.4	0.059		
51	27.87	34.461	4.65	0.06	2.		0.2	577.9	20	28.09	34.468	4.70	21.987	584.3	0.118		
81	27.85	34.457	4.68	0.05	2.		0.3	577.6	30	27.97	34.465	4.70	22.022	580.9	0.176		
106	26.61	34.612	4.65	0.06	2.		0.3	528.4	50	27.67	34.462	4.65	22.053	578.0	0.293		
131	25.72	34.763	4.51	0.08	2.		0.3	491.0	75	27.85	34.458	4.67	22.057	577.7	0.438		
156	24.21	34.930	4.27	0.11	2.		0.8	435.2	100	26.94	34.569	4.66	22.432	541.7	0.579		
186	21.45	34.993	4.09	0.22	3.		2.6	355.2	125	25.95	34.727	4.55	22.866	500.2	0.710		
220	18.39	34.841	4.40	0.27	5.		4.3	289.8	150	24.63	34.893	4.33	23.593	449.8	0.830		
260	16.17	34.706	4.46	0.45	8.		7.3	249.0	200	20.12	34.939	4.20	24.703	324.9	1.027		
300	13.47	34.502	3.89	0.92	16.		13.9	208.1	250	16.68	34.745	4.45	25.413	257.3	1.176		
340	10.78	34.345	3.25	1.49	30.		20.3	170.7	300	13.47	34.502	3.89	25.931	208.1	1.297		
390	9.06	34.321	2.40	2.00	42.		27.6	144.9	400	8.78	34.309	2.38	26.632	141.7	1.479		
439	7.94	34.282	2.30	2.18	53.		31.5	131.3	500	7.40	34.429	1.73	26.934	113.0	1.615		
508	7.37	34.451	1.66	2.45	58.		34.4	110.9	600	6.74	34.496	1.78	27.079	99.3	1.729		
583	6.86	34.494	1.77	2.50	61.		36.2	100.9	700	6.07	34.498	1.84	27.168	90.7	1.834		
680	6.20	34.495	1.83	2.58	69.		37.6	92.5	800	5.52	34.515	1.88	27.250	83.0	1.930		
803	5.51	34.515	1.88	2.68	80.		37.0	82.8	1000	4.73	34.534	1.93	27.358	72.8	2.107		
906A	5.15	34.524	1.86	2.55	86.		35.1	78.0	1200	3.84	34.555	2.07	27.471	62.1	2.263		
1106A	4.23	34.544	2.03	2.42	105.		35.9	66.8	1500	2.96	34.566	2.27	27.579	51.8	2.465		
1306A	3.45	34.566	2.12	2.51	122.		36.6	57.6	1750	2.50	34.609	2.47	27.638	46.2	2.612		
1506A	2.95	34.585	2.28	2.61	133.		38.2	51.7	2000	2.19	34.627	2.61	27.679	42.4	2.747		
1756A	2.49	34.608	2.47	2.61	142.		37.5	46.1	2250	1.87	34.644	2.68	27.720	38.4	2.872		
2005A	2.18	34.626	2.61	2.60	147.		37.5	42.3	2500	1.70	34.657	3.08	27.741	36.3	2.988		
2306A	1.81	34.651	2.94	2.46	152.		36.8	37.6	2750	1.62	34.666	3.21	27.754	35.2	3.101		
2606A	1.67	34.661	3.14	2.42	153.		37.2	35.9	3000	1.57	34.673	3.32	27.764	34.3	3.213		
2905A	1.585	34.671	3.27	2.36	152.		37.6	34.5	3250	1.55	34.674	3.45	27.768	33.9	3.324		
3204A	1.550	34.675	3.43	2.38	151.		36.6	34.0	3500	1.53	34.679	3.53	27.771	33.6	3.435		
3505A	1.532	34.678	3.53	2.42	150.		36.6	33.6	3750	1.53	34.681	3.53	27.773	33.5	3.548		
3755A	1.533	34.680	3.53	2.41	149.		36.6	33.5	4000	1.56	34.683	3.57	27.772	33.5	3.663		
4004A	1.560	34.682	3.57	2.49	150.		36.6	33.5	4250	1.59	34.682	3.55	27.770	33.8	3.780		
4254A	1.586	34.681	3.55	2.49	149.		36.7	33.8	4500	1.62	34.684	3.57	27.769	33.8	3.900		
4504A	1.616	34.683	3.57	2.47	149.		37.3	33.8	4750	1.65	34.684	3.62	27.767	34.1	4.023		
4704A	1.639	34.683	3.62	2.47	149.		36.6	34.0	5000	1.68	34.683	3.58	27.764	34.3	4.150		
5003A	1.678	34.682	3.58	2.42	149.		37.2	34.3	5250	1.71	34.684	3.58	27.762	34.5	4.279		
5303A	1.720	34.683	3.58	2.48	149.		36.7	34.6									

29 DU						INDOPAC LEG III						30 D					
LATITUDE	LONGITUDE	MO/DAY/YR	START TIME			LATITUDE	LONGITUDE	MO/DAY/YR	START TIME			LATITUDE	LONGITUDE	MO/DAY/YR	START TIME		
12 59.4N	127 42.8E	06/01/76	2302 GMT			12 59.4N	126 40. E	06/02/76	0741 GMT			12 59.4N	126 40. E	06/02/76	0741 GMT		
Z	T	S	SIGMA T	DT	DC	Z	T	S	SIGMA T	DT	DC	Z	T	S	SIGMA T	DT	DC
0	28.42	34.41	21.835	598.9	0.000	0	28.86	34.50	21.757	606.4	0.000	0	28.86	34.50	21.757	606.4	0.000
10	28.37	34.42	21.859	596.6	0.060	10	28.53	34.48	21.652	597.3	0.060	10	28.53	34.48	21.652	597.3	0.060
50	28.23	34.42	21.905	592.1	0.290	50	28.20	34.49	21.968	586.2	0.119	50	28.20	34.49	21.968	586.2	0.119
30	28.13	34.41	21.931	589.7	0.180	30	28.04	34.49	22.040	581.2	0.178	30	28.04	34.49	22.040	581.2	0.178
40	28.10	34.41	21.941	588.8	0.239	40	27.98	34.49	22.040	579.3	0.236	40	27.98	34.49	22.040	579.3	0.236
50	28.07	34.41	21.950	587.8	0.298	50	27.92	34.49	22.059	577.4	0.294	50	27.92	34.49	22.059	577.4	0.294
75	27.95	34.44	22.012	581.9	0.444	75	27.87	34.49	22.076	575.9	0.439	75	27.87	34.49	22.076	575.9	0.439
100	27.48	34.58	22.270	557.3	0.588	100	27.58	34.51	22.185	565.4	0.582	100	27.58	34.51	22.185	565.4	0.582
125	26.93	34.73	22.559	529.6	0.725	125	26.64	34.66	22.598	525.9	0.720	125	26.64	34.66	22.598	525.9	0.720
150	25.51	35.02	23.241	466.3	0.851	150	25.17	34.90	23.235	464.9	0.845	150	25.17	34.90	23.235	464.9	0.845
175	23.04	35.05	23.980	393.8	0.960	175	23.20	34.96	23.866	404.7	0.956	175	23.20	34.96	23.866	404.7	0.956
200	20.43	34.96	24.637	331.3	1.052	200	20.59	34.90	24.548	339.7	1.050	200	20.59	34.90	24.548	339.7	1.050
225	18.36	34.86	25.095	287.7	1.131	225	18.31	34.78	25.046	292.3	1.131	225	18.31	34.78	25.046	292.3	1.131
250	16.88	34.76	25.377	260.8	1.202	250	16.66	34.71	25.391	259.5	1.202	250	16.66	34.71	25.391	259.5	1.202
275	14.89	34.61	25.714	228.8	1.265	275	15.41	34.60	25.592	240.4	1.267	275	15.41	34.60	25.592	240.4	1.267
300	13.18	34.48	25.973	204.1	1.321	300	14.05	34.51	25.617	219.0	1.326	300	14.05	34.51	25.617	219.0	1.326
350	10.65	34.36	26.360	167.4	1.418	350	10.73	34.31	26.307	172.5	1.428	350	10.73	34.31	26.307	172.5	1.428
400	9.16	34.35	26.604	144.2	1.500	400	9.21	34.29	26.549	149.5	1.512	400	9.21	34.29	26.549	149.5	1.512
450	7.83	34.33	26.794	126.2	1.571	450	7.95	34.29	26.745	130.9	1.586	450	7.95	34.29	26.745	130.9	1.586
500	7.08	34.38	26.941	112.3	1.635	500	7.20	34.32	26.877	118.4	1.652	500	7.20	34.32	26.877	118.4	1.652
550	7.11	34.50	27.031	103.8	1.693	550	6.53	34.35	26.992	107.5	1.713	550	6.53	34.35	26.992	107.5	1.713
600	6.64	34.49	27.088	98.4	1.748	600	6.66	34.49	27.085	98.6	1.769	600	6.66	34.49	27.085	98.6	1.769
650	6.05	34.47	27.149	92.6	1.800	650	5.91	34.40	27.112	96.1	1.822	650	5.91	34.40	27.112	96.1	1.822
700	5.72	34.46	27.183	89.4	1.850	700	5.79	34.43	27.151	92.4	1.873	700	5.79	34.43	27.151	92.4	1.873
750	5.53	34.50	27.238	84.1	1.898	750	5.79	34.49	27.198	87.9	1.923	750	5.79	34.49	27.198	87.9	1.923
800	5.18	34.50	27.280	80.2	1.944	800	5.52	34.51	27.247	83.3	1.971	800	5.52	34.51	27.247	83.3	1.971
850	4.89	34.50	27.314	77.0	1.988	850	5.31	34.51	27.273	80.9	2.017	850	5.31	34.51	27.273	80.9	2.017
900	4.67	34.51	27.347	73.9	2.030	900	5.08	34.51	27.300	78.3	2.062	900	5.08	34.51	27.300	78.3	2.062
950	4.46	34.52	27.378	70.9	2.071	950	4.95	34.52	27.323	76.1	2.106	950	4.95	34.52	27.323	76.1	2.106
1000	4.26	34.53	27.407	68.1	2.111	1000	4.71	34.52	27.350	73.5	2.149	1000	4.71	34.52	27.350	73.5	2.149
1100	3.90	34.54	27.453	63.8	2.187	1100	4.23	34.54	27.418	67.1	2.229	1100	4.23	34.54	27.418	67.1	2.229
1200	3.61	34.56	27.498	59.5	2.258	1200	3.87	34.55	27.464	62.7	2.305	1200	3.87	34.55	27.464	62.7	2.305
1300	3.25	34.57	27.541	55.4	2.325	1300	3.46	34.57	27.521	57.4	2.375	1300	3.46	34.57	27.521	57.4	2.375
1400	3.07	34.58	27.566	53.1	2.389	1400	3.25	34.57	27.541	55.4	2.442	1400	3.25	34.57	27.541	55.4	2.442
1500	2.87	34.59	27.592	50.6	2.451	1500	2.99	34.58	27.573	52.4	2.506	1500	2.99	34.58	27.573	52.4	2.506
1600	2.669	34.596	27.615	48.5	2.510	1600	2.779	34.591	27.601	49.8	2.567	1600	2.779	34.591	27.601	49.8	2.567
1700	2.500	34.603	27.635	46.6	2.567	1700	2.574	34.602	27.628	47.2	2.626	1700	2.574	34.602	27.628	47.2	2.626
1800	2.374	34.610	27.651	45.0	2.623	1800	2.438	34.612	27.647	45.4	2.682	1800	2.438	34.612	27.647	45.4	2.682
1900	2.226	34.620	27.671	43.1	2.676	1900	2.291	34.620	27.666	43.6	2.736	1900	2.291	34.620	27.666	43.6	2.736
2000	2.103	34.628	27.686	41.6	2.728	2000	2.179	34.627	27.681	42.2	2.789	2000	2.179	34.627	27.681	42.2	2.789
2100	2.014	34.636	27.701	40.3	2.778	2100	2.049	34.634	27.697	40.7	2.840	2100	2.049	34.634	27.697	40.7	2.840
2200	1.940	34.640	27.710	39.4	2.827	2200	1.893	34.645	27.718	38.7	2.889	2200	1.893	34.645	27.718	38.7	2.889
2300	1.877	34.644	27.718	38.7	2.876	2300	1.786	34.652	27.732	37.4	2.936	2300	1.786	34.652	27.732	37.4	2.936
2400	1.810	34.649	27.727	37.6	2.923	2400	1.745	34.653	27.735	37.0	2.982	2400	1.745	34.653	27.735	37.0	2.982
2500	1.755	34.654	27.735	37.0	2.970	2500	1.696	34.660	27.745	36.1	3.028	2500	1.696	34.660	27.745	36.1	3.028
2600	1.718	34.658	27.741	36.5	3.017	2600	1.674	34.662	27.748	35.8	3.073	2600	1.674	34.662	27.748	35.8	3.073
2700	1.686	34.661	27.746	36.0	3.063	2700	1.653	34.663	27.750	35.6	3.119	2700	1.653	34.663	27.750	35.6	3.119
2800	1.656	34.663	27.750	35.6	3.108	2800	1.614	34.667	27.756	35.0	3.164	2800	1.614	34.667	27.756	35.0	3.164
2900	1.636	34.665	27.753	35.3	3.154	2900	1.588	34.670	27.761	34.6	3.208	2900	1.588	34.670	27.761	34.6	3.208
3000	1.621	34.667	27.756	35.1	3.199	3000	1.581	34.670	27.761	34.6	3.255	3000	1.581	34.670	27.761	34.6	3.255
3100	1.589	34.671	27.762	34.6	3.244	3100	1.564	34.673	27.765	34.2	3.297	3100	1.564	34.673	27.765	34.2	3.297
3200	1.569	34.672	27.764	34.3	3.289	3200	1.565	34.674	27.764	34.2	3.342	3200	1.565	34.674	27.764	34.2	3.342
3300	1.568	34.673	27.765	34.3	3.334	3300	1.552	34.675	27.767	34.0	3.387	3300	1.552	34.675	27.767	34.0	3.387
3400	1.559	34.674	27.766	34.1	3.380	3400	1.547	34.676	27.769	33.9	3.431	3400	1.547	34.676	27.769	33.9	3.431
3500	1.553	34.675	27.767	34.0	3.425	3500	1.543	34.677	27.770	33.8	3.476	3500	1.543	34.677	27.770	33.8	3.476
3600	1.550	34.676	27.768	33.9	3.470	3600	1.539	34.679	27.772	33.6	3.522	3600	1.539	34.679	27.772	33.6	3.522
3700	1.549	34.677	27.769	33.6	3.516	3700	1.542	34.680	27.772	33.5	3.567	3700	1.542	34.680	27.772	33.5	3.567
3800	1.555	34.677	27.769	33.9	3.562	3800	1.547	34.680	27.772	33.6	3.612	3800	1.547	34.680	27.772	33.6	3.612
3900	1.561	34.678	27.769	33.8	3.608	3900	1.555	34.681	27.772	33.6	3.658	3900	1.555	34.681	27.772	33.6	3.658
4000	1.569	34.678	27.769	33.9	3.655	4000	1.564	34.681	27.771	33.6	3.705	4000	1.564	34.681	27.771	33.6	3.705
4100	1.578	34.679	27.769	33.9	3.702	4100	1.573	34.682	27.771	33.6	3.751	4100	1.573	34.682	27.771	33.6	3.751
4200	1.586	34.679	27.768	33.9	3.749	4200	1.583	34.681	27.770	33.7	3.798	4200	1.583	34.681	27.770	33.7	3.798
4300	1.596	34.679	27.767	34.0	3.797	4300	1.594	34.682	27.770	33.8	3.846	4300	1.594	34.682	27.770	33.8	3.846
4400	1.606	34.680	27.767	34.0	3.845	4400	1.604	34.682	27.769	33.8	3.894	4400	1.604	34.682	27.769	33.8	3.894
4500	1.617	34.680	27.767	34.1	3.894	4500	1.616	34.683	27.769	33.8	3.942	4500					

RV THOMAS WASHINGTON

INDOFAC LEG III

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LATITUDE 13 01.5N		LONGITUDE 125 37. E		MO/DAY/YR 6/ 2/76		MESSENGER 2032 0037		TIME GMT	BOTTOM #076M	WIND 060	SPEED 12KT	WEATHER 1	DOMINANT WAVES 090 5 4		
Z	T	S	Q2	P04	S103	N02	N03	DT	Z	T	S	Q2	S10T	DT	DD
0	28.42	34.469	4.58	0.05	2.	0.1	594.6	0	28.42	34.469	4.58	21.880	594.6	0.000	
20	28.31	34.460	4.61	0.05	2.	0.1	591.0	10	28.37	34.468	4.60	21.894	593.2	0.059	
40	27.95	34.449	4.60	0.04	2.	0.1	581.5	20	28.31	34.460	4.61	21.909	591.8	0.119	
60	27.95	34.458	4.61	0.06	2.	0.1	580.0	30	28.12	34.454	4.61	21.965	586.4	0.178	
85	27.67	34.469	4.62	0.08	2.	0.1	571.1	50	27.94	34.458	4.60	22.028	580.4	0.295	
110	26.84	34.667	4.54	0.12	2.	0.1	531.4	75	27.62	34.487	4.62	22.088	574.7	0.440	
134	26.19	34.886	4.47	0.10	2.	0.1	496.1	100	27.20	34.576	4.58	22.356	549.0	0.561	
160	25.86	34.928	4.25	0.13	2.	0.4	425.4	125	26.51	34.614	4.50	22.755	510.8	0.715	
179	22.38	35.014	4.09	0.15	2.	0.9	378.5	150	24.84	34.914	4.34	23.348	454.2	0.837	
204	20.61	34.983	4.05	0.23	4.	1.9	334.2	200	20.89	34.996	4.06	24.540	340.5	1.039	
244	17.47	34.790	4.43	0.32	5.	4.1	272.0	250	17.25	34.779	4.43	25.304	267.8	1.195	
273	16.51	34.728	4.42	0.40	7.	5.7	254.9	300	15.01	34.610	4.08	25.688	231.3	1.324	
322	13.64	34.512	3.73	0.94	15.	12.3	211.1	400	10.25	34.330	2.83	26.406	163.0	1.529	
371	11.26	34.369	3.18	1.47	26.	19.7	177.2	500	7.91	34.298	2.08	26.756	129.8	1.684	
470	8.49	34.295	2.14	2.09	48.	28.8	138.3	600	6.52	34.346	1.88	26.989	107.7	1.812	
594	6.59	34.340	1.89	2.52	70.	34.1	109.0	700	5.61	34.433	1.83	27.174	90.2	1.920	
719	3.48	34.448	1.83	2.63	85.	37.6	87.5	800	4.91	34.494	1.62	27.306	77.7	2.012	
847	4.63	34.511	1.81	2.75	99.	38.1	73.4	1000	4.01	34.533	2.04	27.435	65.4	2.174	
993A	4.03	34.531	2.03		112.	36.2	65.7	1200	3.46	34.560	2.13	27.510	58.3	2.316	
1193A	3.50	34.559	2.13		123.	35.7	58.6	1500	2.84	34.587	2.29	27.591	50.6	2.508	
1393A	3.05	34.576	2.25	2.60	131.	35.8	53.2	1750	2.44	34.614	2.42	27.648	45.3	2.682	
1593A	2.60	34.597	2.32	2.35	139.	38.1	48.5	2000	2.11	34.632	2.62	27.689	41.4	2.784	
1794A	2.30	34.617	2.45	2.40	144.	36.9	44.5	2250	1.88	34.646	2.85	27.719	38.5	2.908	
1993A	2.12	34.630	2.61	2.25	148.	38.1	41.5	2500	1.74	34.657	3.03	27.739	36.7	3.025	
2193A	1.92	34.644	2.80	2.17	150.	36.5	39.0	2750	1.64	34.666	3.13	27.753	35.3	3.139	
2492A	1.74	34.656	3.03	2.29	151.	36.7	36.8	3000	1.58	34.670	3.30	27.761	34.6	3.251	
2792A	1.63	34.667	3.15	2.42	150.	35.9	35.1	3250	1.56	34.674	3.43	27.765	34.2	3.363	
3092A	1.57	34.671	3.37	2.37	150.	36.8	34.4	3500	1.56	34.678	3.45	27.769	33.8	3.476	
3391A	1.559	34.676	3.45	2.36	149.	36.2	34.0	3750	1.56	34.681	3.48	27.771	33.7	3.590	
3690A	1.562	34.680	3.46	2.36	149.	35.0	33.7	4000	1.57	34.681	3.54	27.770	33.7	3.705	
3991A	1.568	34.680	3.54	2.44	149.	35.2	33.7	4250	1.60	34.682	3.52	27.769	33.9	3.823	
4291A	1.603	34.681	3.51	2.45	149.	36.1	33.9	4500	1.63	34.682	3.52	27.767	34.0	3.944	
4590A	1.681	34.682	3.52	2.45	148.	34.0	34.1	4750	1.66	34.682	3.51	27.765	34.2	4.068	
4891A	1.674	34.681	3.51	2.33	148.	34.2	34.4	5000	1.69	34.682	3.54	27.762	34.5	4.195	
5194A	1.712	34.682	3.58	2.45	148.	36.0	34.6	5250	1.72	34.683	3.57	27.761	34.6	4.325	
5490A	1.754	34.682	3.54	2.47	148.	34.5	34.9	5500	1.76	34.683	3.54	27.758	34.9	4.458	
5741A	1.787	34.682	3.54	2.41	148.	35.1	35.1	5750	1.79	34.683	3.54	27.755	35.1	4.595	

RV THOMAS WASHINGTON

INDOFAC LEG III

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LATITUDE 13 15.8N		LONGITUDE 125 07.9E		MO/DAY/YR 6/ 3/76		MESSENGER U502 0752		TIME GMT	BOTTOM 5214M	WIND 080	SPEED 13KT	WEATHER 1	DOMINANT WAVES 090 5 4		
Z	T	S	Q2	P04	S103	N02	N03	DT	Z	T	S	Q2	S10T	DT	DD
0	28.61	34.471	4.60	0.09	2.	0.0	600.5	0	28.61	34.471	4.60	21.818	600.5	0.000	
15	28.56	34.467	4.62	0.10	2.	0.0	599.2	10	28.58	34.469	4.61	21.827	599.6	0.060	
36	28.13	34.458	4.66	0.11	2.	0.1	586.3	20	28.46	34.465	4.63	21.861	596.4	0.120	
56	27.96	34.465	4.66	0.08	2.	0.1	580.5	30	28.26	34.460	4.65	21.925	590.3	0.179	
82	27.23	34.582	4.73	0.11	2.	0.1	549.4	50	28.02	34.459	4.66	22.004	582.7	0.297	
113	25.94	34.751	4.57	0.13	2.	0.1	498.3	75	27.47	34.544	4.72	22.245	559.6	0.440	
142	23.91	35.026	4.18	0.19	2.	0.7	419.8	100	26.56	34.672	4.67	22.630	522.8	0.577	
172	22.24	35.056	4.06	0.20	2.	1.9	373.1	125	25.12	34.871	4.41	23.228	465.6	0.701	
212	18.80	34.869	4.18	0.38	5.	4.2	297.5	150	23.48	35.050	4.13	23.852	406.0	0.812	
256	16.75	34.730	4.15	0.54	8.	7.3	260.1	200	19.83	34.920	4.13	24.766	318.9	0.996	
300	14.40	34.562	3.84	0.87	13.	12.2	222.2	250	16.98	34.751	4.15	25.346	263.8	1.145	
349	12.42	34.432	3.66	1.19	19.	15.0	193.4	300	14.40	34.562	3.84	25.783	222.2	1.271	
394A	10.00	34.315	2.93	1.44	34.	18.7	160.1	400	9.78	34.306	2.68	26.467	157.2	1.469	
445	8.58	34.270	2.57	2.05	46.	27.5	141.5	500	7.80	34.317	1.97	26.789	126.7	1.619	
519A	7.61	34.339	1.77	2.09	56.	27.7	122.5	600	6.54	34.365	1.76	27.003	106.4	1.745	
668A	5.76	34.383	1.76	2.35	83.	31.7	95.6	700	5.52	34.409	1.79	27.167	90.9	1.852	
817A	4.88	34.498	1.94	2.56	93.	35.4	77.0	800	4.95	34.446	1.92	27.295	78.7	1.946	
992A	4.11	34.540	2.03	2.64	109.	35.5	65.9	1000	4.08	34.542	2.04	27.435	65.5	2.108	
1191A	3.45	34.558	2.18	2.65	123.	37.0	58.2	1200	3.43	34.559	2.18	27.515	57.9	2.250	
1391A	3.038	34.576	2.24	2.62	131.	36.8	53.1	1500	2.83	34.589	2.31	27.594	50.4	2.441	
1590A	2.656	34.598	2.38	2.63	138.	36.3	48.2	1750	2.35	34.617	2.52	27.658	44.4	2.583	
1789A	2.290	34.620	2.55	2.51	145.	37.5	43.6	2000	2.11	34.633	2.65	27.690	41.3	2.714	
1988A	2.121	34.631	2.64	2.61	147.	37.5	41.5	2250	1.88	34.645	2.82	27.718	38.6	2.837	
2187A	1.932	34.641	2.77	2.64	151.	37.5	39.3	2500	1.72	34.660	3.05	27.742	36.3	2.954	
2385A	1.784	34.653	2.94	2.58	153.	37.1	37.3	2750	1.63	34.669	3.22	27.756	35.0	3.067	
2584A	1.680	34.664	3.12	2.68	153.	37.1	35.7		1.58	34.673	3.36	27.764	34.3	3.178	
2784A	1.622	34.669	3.24	2.60	152.	37.1	34.9								
2933A	1.590	34.671	3.33	2.56	151.	37.2	34.6								
3084A	1.560	34.675	3.40	2.58	151.	36.5	34.0								

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INDOPAC LEG III

32 U

LATITUDE		LONGITUDE		MO/DAY/YR		START TIME		LATITUDE		LONGITUDE		MO/DAY/YR		START TIME	
13 01.5N		125 37. E		06/02/76		2113 GMT		13 15.8N		125 07.9E		06/03/76		0332 GMT	
Z	T	S	SIGMA T	DT	DD	Z	T	S	SIGMA T	DT	DD	Z	T	S	SIGMA T
0	28.42	34.50	21.903	592.4	0.000	0	28.58	34.51	21.657	596.7	0.000	0	28.58	34.51	21.657
10	28.42	34.51	21.910	591.7	0.059	10	28.56	34.51	21.864	596.1	0.060	10	28.56	34.51	21.864
20	28.32	34.52	21.951	587.6	0.118	20	28.46	34.49	21.882	594.4	0.119	20	28.46	34.49	21.882
30	28.05	34.50	22.024	580.8	0.177	30	28.23	34.49	21.958	587.1	0.178	30	28.23	34.49	21.958
40	27.98	34.50	22.047	578.6	0.235	40	28.12	34.48	21.986	584.4	0.237	40	28.12	34.48	21.986
50	27.94	34.50	22.060	577.3	0.293	50	28.04	34.46	21.998	583.3	0.296	50	28.04	34.46	21.998
75	27.84	34.51	22.100	573.5	0.437	75	27.44	34.56	22.267	557.5	0.439	75	27.44	34.56	22.267
100	27.12	34.65	22.438	541.2	0.578	100	26.68	34.74	22.645	521.3	0.575	100	26.68	34.74	22.645
125	26.51	34.84	22.774	509.0	0.710	125	25.07	35.02	23.356	453.4	0.698	125	25.07	35.02	23.356
150	24.30	34.98	23.558	434.1	0.829	150	23.05	35.00	23.940	397.7	0.805	150	23.05	35.00	23.940
175	22.38	35.06	24.176	375.1	0.932	175	20.90	34.96	24.510	343.3	0.900	175	20.90	34.96	24.510
200	20.59	35.02	24.639	331.0	1.022	200	19.12	34.88	24.918	304.5	0.982	200	19.12	34.88	24.918
225	18.33	34.88	25.117	285.5	1.101	225	17.81	34.80	25.184	279.1	1.057	225	17.81	34.80	25.184
250	17.25	34.79	25.312	267.0	1.172	250	16.56	34.70	25.407	258.0	1.126	250	16.56	34.70	25.407
275	16.39	34.76	25.492	249.9	1.239	275	15.51	34.63	25.593	240.3	1.190	275	15.51	34.63	25.593
300	14.91	34.65	25.741	226.2	1.300	300	14.65	34.58	25.743	226.0	1.251	300	14.65	34.58	25.743
350	12.48	34.48	26.112	190.9	1.409	350	11.92	34.40	26.158	186.6	1.358	350	11.92	34.40	26.158
400	10.43	34.36	26.399	163.8	1.502	400	10.19	34.31	26.401	163.5	1.450	400	10.19	34.31	26.401
450	9.11	34.30	26.573	147.2	1.584	450	8.43	34.25	26.641	140.7	1.530	450	8.43	34.25	26.641
500	7.82	34.29	26.764	129.1	1.657	500	7.81	34.32	26.789	126.7	1.601	500	7.81	34.32	26.789
550	7.20	34.30	26.861	119.9	1.724	550	7.01	34.32	26.904	115.9	1.666	550	7.01	34.32	26.904
600	6.62	34.34	26.972	109.3	1.786	600	6.41	34.36	27.016	105.2	1.725	600	6.41	34.36	27.016
650	6.15	34.41	27.089	98.3	1.842	650	5.86	34.36	27.087	98.5	1.781	650	5.86	34.36	27.087
700	5.67	34.44	27.174	90.3	1.894	700	5.60	34.40	27.151	92.4	1.835	700	5.60	34.40	27.151
750	5.19	34.46	27.247	83.5	1.941	750	5.11	34.45	27.249	83.1	1.881	750	5.11	34.45	27.249
800	4.83	34.49	27.313	77.1	1.986	800	4.88	34.48	27.299	78.4	1.926	800	4.88	34.48	27.299
850	4.52	34.50	27.355	73.0	2.028	850	4.72	34.51	27.341	74.4	1.968	850	4.72	34.51	27.341
900	4.33	34.54	27.386	70.1	2.068	900	4.46	34.52	27.378	70.9	2.009	900	4.46	34.52	27.378
950	4.34	34.54	27.407	68.2	2.107	950	4.30	34.54	27.411	67.8	2.049	950	4.30	34.54	27.411
1000	4.20	34.54	27.422	66.8	2.146	1000	4.12	34.53	27.422	66.7	2.087	1000	4.12	34.53	27.422
1100	3.86	34.55	27.465	62.6	2.220	1100	3.72	34.54	27.471	62.0	2.161	1100	3.72	34.54	27.471
1200	3.54	34.56	27.505	58.9	2.291	1200	3.46	34.56	27.513	58.1	2.230	1200	3.46	34.56	27.513
1300	3.30	34.56	27.528	56.6	2.358	1300	3.19	34.57	27.547	54.9	2.296	1300	3.19	34.57	27.547
1400	3.04	34.58	27.569	52.8	2.423	1400	3.02	34.58	27.570	52.7	2.359	1400	3.02	34.58	27.570
1500	2.85	34.59	27.594	50.4	2.484	1500	2.81	34.59	27.597	50.1	2.420	1500	2.81	34.59	27.597
1600	2.660	34.599	27.618	48.2	2.543	1600	2.594	34.599	27.623	47.7	2.479	1600	2.594	34.599	27.623
1700	2.510	34.606	27.636	46.4	2.600	1700	2.412	34.614	27.651	45.0	2.534	1700	2.412	34.614	27.651
1800	2.351	34.615	27.657	44.5	2.655	1800	2.295	34.618	27.664	43.8	2.588	1800	2.295	34.618	27.664
1900	2.213	34.624	27.676	42.7	2.708	1900	2.212	34.625	27.676	42.6	2.641	1900	2.212	34.625	27.676
2000	2.113	34.630	27.688	41.5	2.759	2000	2.051	34.634	27.697	40.7	2.691	2000	2.051	34.634	27.697
2100	2.010	34.638	27.703	40.1	2.809	2100	1.990	34.638	27.705	39.9	2.741	2100	1.990	34.638	27.705
2200	1.929	34.644	27.714	39.0	2.858	2200	1.894	34.645	27.718	38.7	2.789	2200	1.894	34.645	27.718
2300	1.868	34.649	27.723	38.2	2.906	2300	1.818	34.652	27.729	37.6	2.837	2300	1.818	34.652	27.729
2400	1.809	34.653	27.731	37.5	2.954	2400	1.763	34.657	27.737	36.8	2.883	2400	1.763	34.657	27.737
2500	1.755	34.657	27.738	36.8	3.000	2500	1.706	34.660	27.744	36.2	2.929	2500	1.706	34.660	27.744
2600	1.717	34.661	27.744	36.2	3.046	2600	1.678	34.663	27.749	35.8	2.974	2600	1.678	34.663	27.749
2700	1.673	34.664	27.750	35.7	3.092	2700	1.637	34.667	27.755	35.2	3.019	2700	1.637	34.667	27.755
2800	1.657	34.666	27.752	35.4	3.137	2800	1.617	34.667	27.756	35.0	3.064	2800	1.617	34.667	27.756
2900	1.613	34.669	27.758	34.9	3.182	2900	1.598	34.670	27.760	34.7	3.109	2900	1.598	34.670	27.760
3000	1.604	34.671	27.760	34.7	3.227	3000	1.569	34.673	27.765	34.3	3.153	3000	1.569	34.673	27.765
3100	1.585	34.672	27.763	34.5	3.272	3100	1.561	34.674	27.766	34.1	3.197	3100	1.561	34.674	27.766
3200	1.581	34.673	27.764	34.4	3.317										
3300	1.571	34.675	27.766	34.1	3.362										
3400	1.568	34.676	27.767	34.0	3.407										
3500	1.568	34.676	27.767	34.0	3.453										
3600	1.565	34.677	27.768	33.9	3.498										
3700	1.567	34.678	27.769	33.9	3.544										
3800	1.568	34.678	27.769	33.9	3.590										
3900	1.574	34.679	27.769	33.8	3.637										
4000	1.580	34.679	27.769	33.9	3.683										
4100	1.587	34.679	27.768	33.9	3.730										
4200	1.595	34.680	27.768	33.9	3.778										
4300	1.605	34.680	27.768	34.0	3.826										
4400	1.614	34.680	27.767	34.0	3.874										
4500	1.626	34.680	27.766	34.1	3.923										
4600	1.635	34.680	27.765	34.2	3.972										
4700	1.648	34.680	27.764	34.3	4.022										
4800	1.660	34.680	27.763	34.4	4.072										
4900	1.673	34.680	27.763	34.5	4.123										
5000	1.685	34.680	27.762	34.5	4.174										
5100	1.698	34.680	27.761	34.6	4.225										
5200	1.711	34.681	27.760	34.7	4.278										
5300	1.724	34.681	27.760	34.7	4.330										
5400	1.738	34.681	27.758	34.8	4.384										
5500	1.751	34.681	27.757	34.9	4.437										
5600	1.765	34.682	27.757	35.0	4.491										
5700	1.779	34.683	27.757	35.0	4.546										
5800	1.793	34.683	27.756	35.1	4.601										
5900	1.807	34.684	27.756	35.1	4.657										

RV THOMAS WASHINGTON

INDOPAC LEG III

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LATITUDE 13 25.8N			LONGITUDE 124 51.6E			MO/DAT/YR 6/ 3/76			MESSENGER TIME 1200 GMT			BOTTOM 2031M			WIND 090			SPEED 10KT			WEATHER			DOMINANT WAVES		
Z	T	S	U2	P04	S103	N02	N03	DT	Z	T	S	U2	S10T	DT	DD											
1	28.45	34.460						596.2	0	28.45	34.460		21.863	596.2	0.000											
26	28.41	34.458						595.1	10	28.44	34.460		21.867	595.8	0.060											
55	27.93	34.440						581.3	20	28.42	34.459		21.872	595.4	0.119											
85	26.66	34.655						526.8	30	28.38	34.450		21.878	594.7	0.179											
116	25.60	34.961						473.2	50	28.06	34.437		21.975	585.5	0.297											
146	22.45	35.034						378.9	75	27.11	34.565		22.376	547.1	0.439											
186	19.70	34.912						316.4	100	26.27	34.816		22.832	503.5	0.571											
231	16.83	34.739						261.2	125	24.72	34.995		23.445	444.9	0.691											
275	13.25	34.638						234.2	150	22.13	35.029		24.222	370.7	0.794											
325	12.89	34.459						200.2	200	18.73	34.853		24.358	296.9	0.964											
400	10.16	34.312						162.9	250	16.10	34.699		25.311	240.1	1.104											
498	7.85	34.329						126.6	300	14.08	34.546		25.838	217.0	1.224											
625	6.42	34.372						104.4	400	10.16	34.312		26.408	162.9	1.422											
775	5.43	34.433						85.0	500	7.82	34.330		26.796	126.1	1.575											
976	4.55	34.533						70.9	600	6.61	34.364		26.992	107.5	1.701											
1225	3.60	34.564						59.1	700	5.86	34.424		27.136	93.8	1.811											
1475	2.99	34.587						51.9	800	5.30	34.484		27.253	82.8	1.908											
1723	2.55	34.612						46.3	1000	4.45	34.538		27.393	69.5	2.080											
2019	2.02	34.637						40.2	1200	3.68	34.563		27.492	60.0	2.230											
									1500	2.94	34.590		27.585	51.3	2.427											
									1750	2.50	34.615		27.643	45.7	2.573											
									2000	2.05	34.636		27.697	40.6	2.705											

RV THOMAS WASHINGTON

INDOPAC LEG III

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LATITUDE 14 02.3N			LONGITUDE 124 35.0E			MO/DAT/YR 6/ 3/76			MESSENGER TIME 1713 GMT			BOTTOM 1403M			WIND 090			SPEED 7KT			WEATHER 1			DOMINANT WAVES		
Z	T	S	U2	P04	S103	N02	N03	DT	Z	T	S	U2	S10T	DT	DD											
1	28.48	34.462	4.58	0.11	2.	0.00	0.0	597.0	0	28.48	34.462	4.58	21.855	597.0	0.000											
25	28.28	34.448	4.65	0.11	2.	0.00	0.0	591.7	10	28.44	34.457	4.61	21.869	595.7	0.060											
49	27.91	34.438	4.67	0.13	2.	0.00	0.0	580.8	20	28.34	34.451	4.64	21.894	593.3	0.119											
78	26.71	34.711	4.66	0.13	2.	0.00	0.0	524.3	30	28.23	34.438	4.66	21.917	591.0	0.178											
108	23.31	35.044	4.12					401.7	50	27.89	34.446	4.67	22.034	579.8	0.296											
136	19.85	34.888	4.18	0.33	4.	0.00	3.2	321.9	75	26.90	34.676	4.66	22.527	532.7	0.436											
166	17.93	34.801	4.29	0.40	5.	0.00	4.4	281.8	100	24.34	34.974	4.26	23.541	435.7	0.557											
205	17.12	34.763	4.33	0.43	6.	0.00	5.0	266.0	125	21.13	34.966	4.16	24.452	348.8	0.657											
249	15.55	34.656	4.17	0.61	10.	0.00	8.3	239.3	150	18.77	34.841	4.23	24.978	298.8	0.739											
293	14.14	34.557	3.91	0.87	16.	0.00	11.9	217.3	200	17.19	34.769	4.32	25.311	267.1	0.883											
343	11.79	34.412	3.45	1.34	27.	0.00	18.4	183.4	250	15.52	34.655	4.17	25.609	238.8	1.013											
416	9.40	34.292	2.79	1.76	40.	0.09	25.3	152.2	300	13.82	34.535	3.85	25.885	212.6	1.130											
492	7.94	34.287	2.37	2.18	57.	0.04	29.7	131.0	400	9.85	34.311	2.92	26.463	157.7	1.323											
591	6.68	34.345	1.97	2.44	74.	0.04	34.6	109.7	500	7.82	34.291	2.33	26.765	129.0	1.475											
715	5.765	34.408	1.88	2.60	87.	0.00	36.9	93.6	600	6.59	34.350	1.96	26.963	108.3	1.602											
840	5.269	34.484	1.90	2.70	90.	0.00	37.7	82.4	700	5.84	34.401	1.89	27.121	95.3	1.713											
1008	4.314	34.539	1.99	2.81		0.00	39.6	68.0	800	5.41	34.462	1.89	27.221	85.7	1.813											
									1000	4.37	34.538	1.98	27.401	68.6	1.987											

33						INDOPAC LEG III						34					
LATITUDE		LONGITUDE		MO/DAY/YR		START TIME		LATITUDE		LONGITUDE		MO/DAY/YR		START TIME			
13 25.8N		124 51.6E		06/03/76		1044 GMT		14 02.3N		124 35.0E		06/03/76		1630 GMT			
Z	T	S	SIGMA T	DT	DD	Z	T	S	SIGMA T	DT	DD	Z	T	S	SIGMA T		
0	28.49	34.46	21.850	597.5	0.000	0	28.48	34.50	21.883	594.3	0.000	0	28.47	34.50	21.886		
10	28.49	34.46	21.850	597.5	0.060	10	28.47	34.50	21.883	594.3	0.059	10	28.46	34.50	21.883		
20	28.49	34.46	21.850	597.5	0.120	20	28.48	34.50	21.883	594.3	0.119	20	28.48	34.50	21.883		
30	28.38	34.44	21.871	595.4	0.179	30	28.30	34.48	21.927	590.0	0.178	30	28.30	34.48	21.927		
40	28.18	34.42	21.922	590.6	0.239	40	28.11	34.48	21.990	584.1	0.237	40	28.11	34.48	21.990		
50	28.10	34.42	21.948	588.1	0.298	50	28.04	34.47	22.005	582.6	0.296	50	28.04	34.47	22.005		
75	27.33	34.58	22.318	552.7	0.441	75	27.13	34.60	22.457	559.3	0.436	75	27.13	34.60	22.457		
100	26.08	34.82	22.894	497.5	0.575	100	25.54	34.90	23.122	475.8	0.584	100	25.54	34.90	23.122		
125	24.56	35.02	23.510	438.7	0.691	125	22.08	34.96	24.185	374.5	0.672	125	22.08	34.96	24.185		
150	22.54	35.03	24.108	381.6	0.795	150	19.49	34.89	24.830	312.8	0.759	150	19.49	34.89	24.830		
175	20.74	34.96	24.553	339.2	0.887	175	18.11	34.83	25.134	284.0	0.835	175	18.11	34.83	25.134		
200	19.25	34.88	24.885	307.7	0.969	200	17.26	34.78	25.302	267.9	0.905	200	17.26	34.78	25.302		
225	17.38	34.75	25.251	272.8	1.044	225	16.52	34.74	25.447	254.2	0.972	225	16.52	34.74	25.447		
250	16.23	34.70	25.483	250.7	1.111	250	15.79	34.68	25.568	242.6	1.036	250	15.79	34.68	25.568		
275	15.38	34.64	25.629	236.8	1.174	275	15.09	34.64	25.694	230.7	1.097	275	15.09	34.64	25.694		
300	14.27	34.56	25.809	219.7	1.235	300	14.06	34.55	25.842	216.6	1.155	300	14.06	34.55	25.842		
350	11.80	34.38	26.165	185.9	1.339	350	11.21	34.35	26.252	177.7	1.258	350	11.21	34.35	26.252		
400	10.07	34.30	26.414	162.3	1.430	400	9.79	34.31	26.469	157.1	1.346	400	9.79	34.31	26.469		
450	8.77	34.30	26.628	142.0	1.510	450	8.69	34.29	26.632	141.6	1.425	450	8.69	34.29	26.632		
500	7.64	34.33	26.822	123.6	1.581	500	7.65	34.27	26.774	128.2	1.496	500	7.65	34.27	26.774		
550	7.10	34.36	26.922	114.1	1.645	550	7.12	34.31	26.880	118.1	1.562	550	7.12	34.31	26.880		
600	6.57	34.37	27.003	106.5	1.704	600	6.59	34.35	26.984	108.2	1.623	600	6.59	34.35	26.984		
650	6.06	34.41	27.101	97.2	1.759	650	6.03	34.38	27.081	99.0	1.679	650	6.03	34.38	27.081		
700	5.74	34.45	27.173	90.3	1.811	700	5.80	34.39	27.118	95.5	1.732	700	5.80	34.39	27.118		
750	5.57	34.46	27.202	87.6	1.860	750	5.62	34.44	27.180	89.7	1.783	750	5.62	34.44	27.180		
800	5.35	34.51	27.268	81.3	1.907	800	5.57	34.47	27.210	86.9	1.832	800	5.57	34.47	27.210		
850	5.06	34.52	27.310	77.3	1.951	850	5.22	34.50	27.275	80.6	1.879	850	5.22	34.50	27.275		
900	4.80	34.52	27.340	74.5	1.994	900	4.89	34.52	27.330	75.5	1.923	900	4.89	34.52	27.330		
950	4.65	34.53	27.365	72.2	2.036	950	4.59	34.53	27.371	71.5	1.965	950	4.59	34.53	27.371		
1000	4.27	34.52	27.398	69.0	2.076	1000	4.31	34.54	27.410	67.9	2.005	1000	4.31	34.54	27.410		
1100	3.87	34.54	27.456	63.5	2.152												
1200	3.64	34.56	27.495	59.8	2.224												
1300	3.32	34.57	27.534	56.1	2.291												
1400	3.08	34.58	27.565	53.2	2.356												
1500	2.97	34.59	27.583	51.5	2.418												
1600	2.746	34.599	27.610	48.9	2.478												
1700	2.565	34.607	27.632	46.8	2.536												
1800	2.412	34.615	27.652	45.0	2.592												
1900	2.266	34.625	27.672	43.0	2.645												
2000	2.151	34.633	27.688	41.5	2.697												
2037	1.992	34.643	27.708	39.6	2.716												

RV THOMAS WASHINGTON										INDOPAC LEG III										
LATITUDE		LONGITUDE		MO/DAY/YR		MESSENGER		TIME		BOTTOM		WIND		SPEED		WEATHER		DOMINANT WAVES		
19 38.1N		123 52.8E		6/ 5/76		0010 0426		GMT		5452M		160		7KT		0		100 5 5		
Z	T	S	Q2	P04	S103	N02	N03	DT	Z	T	S	Q2	S10T	DT	CC					
0	27.92	34.233	4.64	0.04	1.	0.00	0.3	595.9	0	27.92	34.233	4.64	21.866	595.9	0.000					
20	27.63	34.231	4.66	0.14	1.	0.00	0.3	587.0	10	27.74	34.222	4.65	21.702	587.0	0.059					
36	27.36	34.295	4.58	0.12	1.	0.00	0.3	574.1	20	27.63	34.231	4.66	21.759	587.0	0.118					
51	27.14	34.347	4.64	0.13	1.	0.00	0.3	563.6	30	27.66	34.269	4.61	22.041	579.1	0.177					
66	26.90	34.412	4.66	0.04	1.	0.00	0.3	551.6	50	27.15	34.344	4.63	22.196	564.3	0.292					
91	24.65	34.049	4.60	0.05	1.	0.04	0.3	511.2	75	26.09	34.263	4.64	22.472	538.0	0.430					
122	25.08	34.721	4.63	0.02	1.	0.03	0.3	475.2	100	24.70	34.214	4.61	22.061	530.6	0.561					
157	23.09	34.756	4.55	0.06	1.	0.13	0.3	416.4	125	24.90	34.740	4.63	23.178	470.4	0.683					
301	17.29	34.777	4.38	0.40	3.	0.00	5.9	268.8	150	23.58	34.777	4.57	23.016	420.6	0.797					
361	15.46	34.654	4.26	0.52	7.	0.00	9.3	237.5	200	21.05	34.797	4.49	24.345	354.1	0.997					
429	12.75	34.451	3.89	0.97	14.	0.00	15.2	198.1	250	19.01	34.814	4.44	24.898	304.6	1.167					
508	10.14	34.314	3.25	1.61	26.	0.00	22.8	162.4	300	17.32	34.774	4.38	25.287	269.4	1.314					
598	7.82	34.241	2.54	2.13	44.	0.00	30.0	132.7	400	13.52	34.634	4.07	25.663	214.7	1.568					
697	6.34	34.320	1.95	2.43	65.	0.00	37.6	107.3	500	10.38	34.325	3.52	26.368	165.6	1.769					
798	5.33	34.362	1.79	2.68	83.	0.00	37.6	92.2	600	7.78	34.243	2.52	26.732	122.1	1.929					
898	4.64	34.399	1.79	2.85	98.	0.00	38.8	81.9	700	6.30	34.323	1.94	27.000	106.7	2.058					
1000	3.99	34.474	1.86	2.86	113.	0.00	39.7	69.6	800	5.31	34.364	1.79	27.156	92.0	2.167					
1064A	3.79	34.492	1.86	2.82	122.	0.00	39.8	66.5	1000	3.99	34.474	1.86	27.371	69.6	2.347					
1160A	3.46	34.520	1.90	2.79	128.	0.00	39.8	61.1	1200	3.35	34.532	1.95	27.501	59.3	2.494					
1403A	2.95	34.579	2.23	2.79	135.	0.00	39.2	52.1	1500	2.60	34.591	2.29	27.598	50.0	2.666					
1696A	2.54	34.602	2.48	2.80	142.	0.00	39.4	47.0	1750	2.47	34.607	2.42	27.629	46.1	2.800					
1939A	2.25	34.621	2.56	2.81	146.	0.00	39.2	43.2	2000	2.19	34.625	2.60	27.677	42.4	2.865					
2236A	2.01	34.641	2.77	2.76	149.	0.00	39.0	39.0	2250	2.00	34.642	2.78	27.707	39.7	3.092					
2522A	1.82	34.653	2.95	2.70	152.	0.00	38.6	37.6	2500	1.83	34.653	2.94	27.728	37.7	3.214					
2815A	1.70	34.661	3.13	2.67	152.	0.00	38.0	36.1	2750	1.72	34.660	3.09	27.742	36.4	3.332					
3107A	1.630	34.670	3.24	2.64	151.	0.00	37.5	34.9	3000	1.65	34.667	3.20	27.753	35.3	3.447					
3401A	1.590	34.675	3.33	2.60	151.	0.00	37.4	34.3	3250	1.61	34.673	3.28	27.761	34.6	3.562					
3645A	1.566	34.678	3.48	2.56	150.	0.00	37.1	33.9	3500	1.58	34.677	3.40	27.768	34.1	3.676					
3841A	1.571	34.681	3.45	2.64	149.	0.00	36.9	33.7	3750	1.57	34.680	3.47	27.770	33.7	3.790					
4037A	1.574	34.683	3.46	2.57	150.	0.00	37.0	33.5	4000	1.57	34.683	3.47	27.772	33.6	3.906					
4234A	1.584	34.685	3.51	2.55	149.	0.00	36.9	33.5	4250	1.59	34.686	3.51	27.773	33.5	4.023					
4479A	1.606	34.684	3.57	2.59	148.	0.00	36.8	33.7	4500	1.61	34.686	3.57	27.771	33.7	4.143					
4775A	1.636	34.686	3.59	2.59	149.	0.00	36.8	33.7	4750	1.63	34.687	3.59	27.770	33.7	4.265					
5070A	1.672	34.686	3.63	2.59	149.	0.00	36.8	34.0	5000	1.66	34.687	3.62	27.768	33.9	4.390					
5366A	1.709	34.686	3.57	2.61	149.	0.00	36.8	34.3	5250	1.69	34.687	3.61	27.766	34.2	4.518					

RV THOMAS WASHINGTON										INDOPAC LEG III										
LATITUDE		LONGITUDE		MO/DAY/YR		MESSENGER		TIME		BOTTOM		WIND		SPEED		WEATHER		DOMINANT WAVES		
19 59.7N		123 13.2E		6/ 5/76		1047 1451		GMT		5206M		190		2KT		1				
Z	T	S	Q2	P04	S103	N02	N03	DT	Z	T	S	Q2	S10T	DT	CU					
0	27.79	34.388	4.68	0.03	2.	0.00	0.2	580.7	0	27.79	34.388	4.68	22.025	580.7	0.00					
20	27.55	34.358	4.70	0.03	2.	0.00	0.2	575.4	10	27.67	34.374	4.69	22.053	578.1	0.089					
36	27.00	34.392	4.69	0.03	2.	0.00	0.2	556.1	20	27.55	34.358	4.70	22.080	575.4	0.116					
51	26.77	34.403	4.66	0.06	2.	0.00	0.2	548.3	30	27.21	34.377	4.69	22.205	563.4	0.173					
67	26.55	34.415	4.67	0.04	2.	0.00	0.3	540.8	50	26.78	34.403	4.66	22.360	548.6	0.264					
91	25.71	34.587	4.68	0.04	2.	0.03	0.2	503.3	75	26.30	34.465	4.68	22.557	529.8	0.440					
131	24.40	34.788	4.63	0.04	2.	0.22	0.1	450.8	100	25.44	34.658	4.67	22.769	490.3	0.548					
157	23.18	34.680	4.51	0.15	2.	0.28	0.8	424.4	125	24.61	34.776	4.64	23.310	457.8	0.668					
201	20.76	34.896	4.30	0.21	2.	0.03	2.6	344.3	150	23.53	34.710	4.55	23.561	432.0	0.780					
260	17.60	34.789	4.51	0.32	5.	0.00	5.4	275.1	200	20.82	34.889	4.30	24.479	386.3	0.978					
329	16.23	34.718	4.54	0.42	7.	0.00	7.2	249.4	250	18.07	34.619	4.46	25.156	283.7	1.139					
407	13.94	34.542	4.10	0.81	13.	0.00	12.6	214.4	300	16.69	34.755	4.53	25.418	256.9	1.274					
496	10.49	34.331	3.22	1.60	30.	0.00	22.5	166.9	400	14.18	34.560	4.16	25.629	217.8	1.527					
595	7.92	34.261	2.31	2.27	52.	0.00	31.0	132.8	500	10.37	34.326	3.18	26.383	165.3	1.729					
643A	6.94	34.277	2.03	2.42	66.	0.00	34.0	118.2	600	7.80	34.262	2.28	26.744	130.3	1.888					
694	6.36	34.289	1.88	2.56	72.	0.00	35.6	109.9	700	6.31	34.295	1.86	26.777	109.0	2.018					
743A	5.96	34.329	1.77	2.72	81.	0.00	36.8	102.0	800	5.35	34.378	1.76	27.163	91.2	2.127					
796	5.40	34.377	1.76	2.72	89.	0.00	38.0	91.9	1000	4.00	34.461	1.77	27.589	76.7	2.368					
844A	4.88	34.391	1.75	2.79	103.	0.00	38.7	85.0	1200	3.52	34.335	2.04	27.306	58.7	2.455					
900	4.51	34.416	1.71	2.83	106.	0.00	39.2	81.3	1500	2.75	34.394	2.06	27.602	49.4	2.645					
1000A	3.63	34.499	1.89	2.84	126.	0.00	39.9	51.9	1700	2.05	34.668	2.47	27.602	45.7	2.788					
1392A	2.93	34.580	2.29	2.84	137.	0.00	39.7	51.9	2000	2.21	34.623	2.60	27.674	42.6	2.923					
1643A	2.36	34.602	2.42	2.82	143.	0.00	39.6	47.1	2250	1.97	34.640	2.79	27.707	39.7	3.050					
1944A	2.07	34.619	2.57	2.76	146.	0.00	39.4	43.5	2500	1.61	34.650	3.03	27.727	37.4	3.172					
2243A	1.98	34.639	2.78	2.75	151.	0.06	39.1	39.8	2750	1.71	34.660	3.15	27.742	36.3	3.289					
2542A	1.79	34.651	3.07	2.70	151.	0.00	38.5	37.5	3000	1.64	34.668	3.24	27.755	35.1	3.404					
2844A	1.689	34.663	3.17	2.68	151.	0.00	38.0	35.9	3250	1.60	34.673	3.34	27.762	34.4	3.518					
3143A	1.608	34.672	3.31	2.61	151.	0.00	37.7	34.8	3500	1.58	34.676	3.41	27.765	34.2	3.632					
3393A	1.586	34.674	3.38	2.59	151.	0.00	37.5	34.3	3750	1.57	34.679	3.44	27.768	33.9	3.747					
3593A		34.676	3.43	2.63	150.	0.00	37.4		4000	1.57	34.683	3.52	27.772	33.6	3.863					
3792A	1.570	34.678	3.45	2.56	150.	0.00	36.7	33.9	4250	1.59	34.688	3.57	27.775	33.3	3.980					
3992A	1.574		3.52	2.61	150.	0.00	36.9	33.6	4500	1.60	34.685	3.57	27.771	33.6	4.099					
4243A	1.582	34.687	3.54	2.56	149.	0.00	36.9	33.3	4750	1.63	34.685	3.59	27.769	33.9	4.221					
4542A	1.606	34.684	3.58	2.56	149.	0.00	36.8	33.7	5000	1.66	34.685	3.60	27.767	34.0	4.347					
4841A	1.640	34.684	3.59	2.56	148.	0.00	36.7	33.9												
5142A	1.678	34.685	3.60	2.58	148.	0.00	36.8	34.1												

35 D						INDOPAC LEG 111						36 D					
LATITUDE	LONGITUDE	MO/DAY/YR	START TIME			LATITUDE	LONGITUDE	MO/DAY/YR	START TIME			LATITUDE	LONGITUDE	MO/DAY/YR	START TIME		
19 38.1N	123 52.8E	06/04/76	2146 GMT			19 59.7N	123 13.2E	06/05/76	0100 GMT			19 59.7N	123 13.2E	06/05/76	0100 GMT		
Z	T	S	SIGMA T	DT	DD	Z	T	S	SIGMA T	DT	DD	Z	T	S	SIGMA T	DT	DD
0	27.58	34.24	21.982	584.8	0.000	0	27.82	34.39	22.017	581.5	0.000	0	27.82	34.39	22.017	581.5	0.000
10	27.58	34.27	22.005	582.7	0.058	10	27.80	34.39	22.023	580.9	0.058	10	27.80	34.39	22.023	580.9	0.058
20	27.58	34.28	22.012	581.9	0.117	20	27.70	34.38	22.048	578.5	0.116	20	27.70	34.38	22.048	578.5	0.116
30	27.49	34.29	22.049	578.4	0.175	30	27.61	34.39	22.085	575.0	0.174	30	27.61	34.39	22.085	575.0	0.174
40	27.25	34.33	22.156	568.2	0.252	40	27.49	34.36	22.101	573.4	0.251	40	27.49	34.36	22.101	573.4	0.251
50	26.96	34.39	22.293	555.0	0.289	50	26.96	34.39	22.293	555.0	0.288	50	26.96	34.39	22.293	555.0	0.288
75	25.44	34.16	22.595	526.1	0.424	75	26.60	34.48	22.475	537.6	0.425	75	26.60	34.48	22.475	537.6	0.425
100	24.77	34.39	22.972	490.1	0.552	100	25.71	34.63	22.866	500.2	0.556	100	25.71	34.63	22.866	500.2	0.556
125	24.04	34.75	23.462	443.5	0.670	125	24.41	34.80	23.389	450.2	0.676	125	24.41	34.80	23.389	450.2	0.676
150	23.36	34.77	23.676	422.9	0.780	150	23.01	34.64	23.679	422.6	0.786	150	23.01	34.64	23.679	422.6	0.786
175	22.54	34.77	23.904	401.1	0.884	175	22.73	34.79	23.873	404.1	0.891	175	22.73	34.79	23.873	404.1	0.891
200	21.24	34.79	24.289	364.4	0.982	200	21.62	34.89	24.260	367.2	0.989	200	21.62	34.89	24.260	367.2	0.989
225	20.44	34.80	24.512	345.1	1.072	225	20.21	34.87	24.627	332.2	1.079	225	20.21	34.87	24.627	332.2	1.079
250	19.21	34.83	24.857	310.5	1.156	250	19.33	34.86	24.849	311.1	1.161	250	19.33	34.86	24.849	311.1	1.161
275	18.28	34.80	25.069	290.1	1.235	275	18.55	34.82	25.017	295.1	1.239	275	18.55	34.82	25.017	295.1	1.239
300	17.13	34.77	25.326	265.7	1.305	300	17.38	34.78	25.273	270.7	1.312	300	17.38	34.78	25.273	270.7	1.312
350	15.57	34.65	25.595	240.1	1.436	350	15.76	34.66	25.560	243.5	1.446	350	15.76	34.66	25.560	243.5	1.446
400	13.66	34.50	25.891	212.0	1.555	400	13.91	34.52	25.854	215.4	1.566	400	13.91	34.52	25.854	215.4	1.566
450	11.75	34.37	26.171	185.4	1.659	450	11.65	34.36	26.178	184.7	1.671	450	11.65	34.36	26.178	184.7	1.671
500	10.25	34.31	26.391	164.5	1.752	500	10.18	34.31	26.403	163.4	1.764	500	10.18	34.31	26.403	163.4	1.764
550	9.08	34.27	26.555	149.0	1.836	550	8.69	34.27	26.617	143.1	1.846	550	8.69	34.27	26.617	143.1	1.846
600	7.64	34.24	26.752	130.5	1.911	600	8.02	34.30	26.743	131.1	1.919	600	8.02	34.30	26.743	131.1	1.919
650	7.05	34.29	26.874	118.6	1.978	650	6.79	34.27	26.894	116.7	1.986	650	6.79	34.27	26.894	116.7	1.986
700	6.38	34.31	26.981	108.6	2.040	700	6.28	34.29	26.972	108.6	2.047	700	6.28	34.29	26.972	108.6	2.047
750	5.96	34.33	27.091	101.9	2.097	750	5.97	34.33	27.049	102.1	2.105	750	5.97	34.33	27.049	102.1	2.105
800	5.48	34.35	27.126	94.8	2.151	800	5.43	34.37	27.148	92.7	2.159	800	5.43	34.37	27.148	92.7	2.159
850	5.14	34.36	27.174	90.2	2.203	850	4.91	34.39	27.224	85.4	2.208	850	4.91	34.39	27.224	85.4	2.208
900	4.68	34.40	27.258	82.4	2.250	900	4.55	34.42	27.289	79.4	2.254	900	4.55	34.42	27.289	79.4	2.254
950	4.28	34.44	27.334	75.1	2.294	950	4.36	34.44	27.317	76.7	2.297	950	4.36	34.44	27.317	76.7	2.297
1000	4.00	34.46	27.379	70.8	2.335	1000	4.06	34.45	27.365	72.1	2.339	1000	4.06	34.45	27.365	72.1	2.339
1100	3.66	34.51	27.453	63.7	2.412	1100	3.64	34.49	27.440	65.1	2.417	1100	3.64	34.49	27.440	65.1	2.417
1200	3.30	34.55	27.520	57.4	2.481	1200	3.26	34.57	27.514	58.0	2.487	1200	3.26	34.57	27.514	58.0	2.487
1300	3.12	34.56	27.548	55.1	2.547	1300	3.09	34.57	27.552	51.5	2.553	1300	3.09	34.57	27.552	51.5	2.553
1400	2.91	34.57	27.572	52.5	2.610	1400	2.89	34.58	27.582	49.1	2.614	1400	2.89	34.58	27.582	49.1	2.614
1500	2.74	34.59	27.604	49.5	2.670	1500	2.69	34.59	27.608	47.1	2.674	1500	2.69	34.59	27.608	47.1	2.674
1600	2.624	34.598	27.620	47.9	2.728	1600	2.593	34.600	27.624	47.5	2.732	1600	2.593	34.600	27.624	47.5	2.732
1700	2.511	34.605	27.635	46.5	2.785	1700	2.505	34.605	27.636	46.5	2.788	1700	2.505	34.605	27.636	46.5	2.788
1800	2.390	34.615	27.654	44.8	2.840	1800	2.436	34.611	27.647	45.4	2.844	1800	2.436	34.611	27.647	45.4	2.844
1900	2.293	34.621	27.666	43.6	2.894	1900	2.352	34.618	27.661	44.0	2.898	1900	2.352	34.618	27.661	44.0	2.898
2000	2.209	34.626	27.677	42.5	2.947	2000	2.232	34.624	27.674	42.9	2.952	2000	2.232	34.624	27.674	42.9	2.952
2100	2.111	34.633	27.691	41.2	2.999	2100	2.145	34.632	27.687	41.6	3.004	2100	2.145	34.632	27.687	41.6	3.004
2200	2.026	34.638	27.702	40.2	3.049	2200	2.034	34.638	27.701	40.3	3.055	2200	2.034	34.638	27.701	40.3	3.055
2300	1.931	34.644	27.714	39.1	3.099	2300	1.955	34.644	27.712	39.2	3.104	2300	1.955	34.644	27.712	39.2	3.104
2400	1.875	34.648	27.721	38.1	3.147	2400	1.911	34.647	27.718	38.7	3.153	2400	1.911	34.647	27.718	38.7	3.153
2500	1.832	34.649	27.726	38.0	3.195	2500	1.870	34.651	27.726	37.9	3.201	2500	1.870	34.651	27.726	37.9	3.201
2600	1.793	34.651	27.730	37.0	3.243	2600	1.777	34.656	27.735	37.0	3.249	2600	1.777	34.656	27.735	37.0	3.249
2700	1.755	34.655	27.736	36.9	3.290	2700	1.741	34.657	27.739	36.7	3.296	2700	1.741	34.657	27.739	36.7	3.296
2800	1.722	34.658	27.741	36.5	3.337	2800	1.718	34.663	27.741	36.5	3.343	2800	1.718	34.663	27.741	36.5	3.343
2900	1.688	34.662	27.747	35.9	3.384	2900	1.675	34.663	27.749	35.8	3.389	2900	1.675	34.663	27.749	35.8	3.389
3000	1.657	34.664	27.751	35.6	3.430	3000	1.658	34.666	27.752	35.4	3.435	3000	1.658	34.666	27.752	35.4	3.435
3100	1.638	34.667	27.755	35.2	3.476	3100	1.638	34.668	27.755	35.1	3.481	3100	1.638	34.668	27.755	35.1	3.481
3200	1.622	34.669	27.757	34.9	3.522	3200	1.617	34.670	27.759	34.8	3.527	3200	1.617	34.670	27.759	34.8	3.527
3300	1.605	34.671	27.760	34.7	3.568	3300	1.611	34.671	27.760	34.7	3.573	3300	1.611	34.671	27.760	34.7	3.573
3400	1.592	34.673	27.763	34.4	3.614	3400	1.601	34.673	27.762	34.5	3.619	3400	1.601	34.673	27.762	34.5	3.619
3500	1.583	34.675	27.765	34.2	3.660	3500	1.591	34.676	27.765	34.2	3.665	3500	1.591	34.676	27.765	34.2	3.665
3600	1.574	34.677	27.767	34.0	3.705	3600	1.585	34.677	27.767	34.1	3.711	3600	1.585	34.677	27.767	34.1	3.711
3700	1.571	34.678	27.768	33.9	3.751	3700	1.587	34.677	27.766	34.1	3.757	3700	1.587	34.677	27.766	34.1	3.757
3800	1.569	34.680	27.770	33.7	3.797	3800	1.580	34.680	27.769	33.8	3.803	3800	1.580	34.680	27.769	33.8	3.803
3900	1.570	34.681	27.771	33.7	3.843	3900	1.579	34.681	27.770	33.7	3.849	3900	1.579	34.681	27.770	33.7	3.849
4000	1.571	34.682	27.772	33.6	3.890	4000	1.578	34.682	27.771	33.6	3.896	4000	1.578	34.682	27.771	33.6	3.896
4100	1.574	34.683	27.772	33.5	3.937	4100	1.581	34.683	27.772	33.6	3.943	4100	1.581	34.683	27.772	33.6	3.943
4200	1.578	34.684	27.773	33.5	3.984	4200	1.587	34.684	27.772	33.6	3.990	4200	1.587	34.684	27.772	33.6	3.990
4300	1.585	34.684	27.772	33.5	4.031	4300	1.589	34.685	27.773	33.5	4.037	4300	1.589	34.685	27.773	33.5	4.037
4400	1.594	34.685	27.772	33.5	4.079	4400	1.595	34.684	27.771	33.6	4.085	4400	1.595	34.684	27.771	33.6	4.085
4500	1.604	34.685	27.772	33.6	4.127	4500	1.603	34.684	27.771								

RV THOMAS WASHINGTON

INDOPAC LEG III

37

LATITUDE			LONGITUDE			MO/DAY/YR		MESSENGER		TIME		BOTTOM		WIND		SPEED		WEATHER		DOMINANT WAVES	
20 21. N			122 21. E			6/ 6/76		0113 0308		GMT		3224M		170		3KT		1			
Z	T	S	Q2	P04	S103	N02	N03	DT	Z	T	S	Q2	SIGT	DT	DD						
0	28.53	34.455	4.78	0.10	2.	0.00	0.0	599.1	0	28.53	34.455	4.78	21.833	599.1	0.000						
10	27.95	34.458	4.67		2.	0.00	0.0	580.6	10	27.95	34.458	4.67	22.026	580.6	0.059						
20	27.91	34.453	4.67	0.08	2.	0.00	0.0	579.8	20	27.91	34.453	4.67	22.035	579.8	0.117						
31	27.67	34.464	4.69	0.08	2.	0.00	0.0	571.5	30	27.70	34.464	4.69	22.114	572.4	0.175						
51	27.17	34.413	4.69	0.08	2.	0.00	0.0	559.8	50	27.19	34.415	4.69	22.237	560.4	0.288						
76	26.79	34.615	4.68	0.05	2.	0.00	0.0	533.6	75	26.80	34.607	4.68	22.507	554.6	0.426						
91	26.72	34.647	4.67	0.04	2.	0.00	0.1	529.2	100	26.35	34.651	4.71	22.680	518.0	0.558						
101	26.30	34.650	4.71	0.03	2.	0.00	0.1	516.3	125	24.47	34.728	4.78	23.316	457.3	0.681						
121	24.76	34.710	4.79	0.04	2.	0.00	0.1	466.8	150	22.98	34.837	4.64	23.837	407.5	0.791						
151	22.93	34.841	4.63	0.11	2.	0.07	0.4	405.9	200	21.01	34.880	4.36	24.420	351.9	0.984						
180	21.97	34.885	4.34	0.13	2.	0.03	1.2	376.8	250	18.46	34.850	4.40	25.048	292.1	1.149						
257	18.08	34.820	4.41	0.28	5.	0.00	4.0	284.0	300	16.34	34.727	4.36	25.477	251.3	1.289						
353	14.43	34.585	4.29	0.64	13.	0.00	10.4	221.1	400	12.75	34.478	3.98	26.058	196.2	1.523						
449	11.09	34.380	3.56	1.33	30.	0.00	19.6	173.4	500	9.41	34.297	3.06	26.521	152.1	1.707						
548	8.10	34.253	2.62	2.00	52.	0.00	28.4	135.8	600	7.40	34.269	2.35	26.808	124.9	1.855						
650	6.86	34.286	2.11	2.32	69.	0.00	32.5	116.4	700	6.00	34.286	1.80	27.010	105.6	1.980						
696A	6.05	34.283	1.80	2.47	80.	0.00	34.1	106.5	800	5.24	34.376	1.71	27.175	90.1	2.087						
796A	5.26	34.372	1.71	2.66	95.	0.00	37.0	90.7	1000	3.96	34.466	1.67	27.403	68.5	2.264						
896A	4.69	34.445	1.79	2.77	105.	0.00	37.2	79.0	1200	3.40	34.535	2.08	27.498	59.5	2.411						
996A	3.97	34.484	1.87	2.84	119.	0.00	38.9	68.7	1500	2.84	34.583	2.33	27.588	51.0	2.605						
1096A	3.76	34.502	1.87	2.89	123.	0.00	39.1	66.3	1750	2.46	34.605	2.49	27.639	46.1	2.750						
1196A	3.41	34.533	2.08	2.92	129.	0.00	39.6	59.7	2000	2.13	34.631	2.65	27.667	41.7	2.884						
1397A	3.020	34.570	2.20	2.91	135.	0.00	39.6	53.4	2250	1.90	34.645	2.93	27.717	36.7	3.008						
1596A	2.688	34.590	2.44	2.87	140.	0.00	39.3	49.1	2500	1.76	34.657	3.09	27.736	36.9	3.126						
1796A	2.397	34.609	2.50	2.87	144.	0.00	39.2	45.3	2750	1.70	34.664	3.22	27.747	35.9	3.242						
1996A	2.136	34.629	2.65	2.83	148.	0.00	38.7	41.7	3000	1.61	34.671	3.30	27.759	34.8	3.355						
2195A	1.940	34.642	2.89	2.81	149.	0.00	38.7	39.3													
2394A	1.805	34.653	3.02	2.82	150.	0.00	38.8	37.5													
2594A	1.732	34.659	3.15	2.77	150.	0.00	37.5	36.5													
2794A	1.686	34.664	3.24	2.76	150.	0.00	37.7	35.8													
2993A	1.613	34.670	3.30	2.73	149.	0.00	37.3	34.8													
3194A	1.582	34.674	3.36	2.73	148.	0.00	37.5	34.3													

RV THOMAS WASHINGTON

INDOPAC LEG III

38

LATITUDE 22 22.0N		LONGITUDE 121 36.9E		MO/DAY/YR 6/ 6/76		MESSENGER 1501 1733		TIME GMT		BOTTOM 3943M		WIND 170		SPEED 6KT		WEATHER 1		DOMINANT WAVES	
Z	T	S	Q2	P04	S103	N02	N03	DT	Z	T	S	Q2	SIGT	DT	DD				
0	26.83	34.364	4.78	0.04	2.		0.1	552.9	0	26.83	34.364	4.78	22.315	552.9	0.000				
20	26.39	34.573	4.78	0.10	2.	0.10	0.1	524.6	10	26.70	34.483	4.78	22.444	540.6	0.055				
40	25.20	34.683	4.78	0.19	2.	0.00	0.1	481.5	20	26.39	34.573	4.78	22.611	524.6	0.108				
65	24.29	34.714	4.75	0.17	2.	0.00	0.3	453.0	30	25.62	34.639	4.78	22.839	502.8	0.159				
90	22.68	34.636	4.49	0.20	3.	0.00	2.2	413.9	50	24.84	34.711	4.77	23.193	469.0	0.257				
115	22.45	34.708	4.51	0.45	3.	0.10	1.4	402.5	75	23.61	34.679	4.64	23.535	436.3	0.371				
146	20.33	34.755	4.39	0.38	5.	0.04	3.4	343.6	100	22.58	34.661	4.50	23.815	409.6	0.477				
180	19.43	34.799	4.42	0.40	5.	0.03	2.8	318.0	125	21.81	34.722	4.47	24.080	384.3	0.578				
220	18.12	34.762	4.35	0.40	8.	0.14	4.5	289.1	150	20.19	34.762	4.39	24.350	339.5	0.669				
271	15.52	34.655	4.25	0.71	12.	0.03	8.8	238.7	200	18.85	34.790	4.39	24.923	304.0	0.833				
331	12.71	34.475	3.83	0.73	22.	0.00	15.2	195.6	250	16.64	34.703	4.31	25.390	259.6	0.976				
406	10.29	34.332	3.36	1.60	35.	0.00	21.1	163.5	300	14.10	34.568	4.06	25.851	215.8	1.101				
464A	8.64	34.269	2.86	1.99	49.	0.00	23.9	142.4	400	10.46	34.342	3.40	26.380	165.6	1.300				
548	7.59	34.305	2.42	2.28	62.	0.00	24.1	124.8	500	8.09	34.277	2.64	26.713	133.9	1.458				
615A	6.78	34.345	2.20	2.43	76.	0.00	30.6	111.0	600	6.95	34.337	2.24	26.924	113.9	1.591				
765A	5.57	34.420	2.03	2.85	94.	0.00	33.6	90.6	700	6.03	34.391	2.10	27.090	98.2	1.707				
965A	4.39	34.491	2.19	2.91	115.	0.00	35.3	72.4	800	5.33	34.435	2.04	27.210	86.9	1.809				
1163A	3.67	34.540	2.30	2.76	127.	0.00	37.0	61.6	1000	4.24	34.502	2.21	27.387	70.0	1.985				
1364A	3.22	34.566	2.39	2.91	134.	0.00	37.0	55.5	1200	3.68	34.544	2.32	27.490	60.3	2.134				
1564A	2.79	34.591	2.50	2.82	141.	0.00	37.1	49.9	1500	2.92	34.585	2.47	27.582	51.5	2.332				
1763A	2.50	34.603	2.55	2.75	143.	0.00	39.0	46.6	1750	2.52	34.603	2.55	27.633	46.8	2.479				
1963A	2.209	34.622	2.68	2.74	146.	0.00	38.4	42.8	2000	2.15	34.626	2.71	27.681	42.1	2.614				
2163A	1.937	34.640	2.86	2.73	149.	0.00	38.4	39.4	2250	1.87	34.645	2.94	27.719	38.6	2.739				
2363A	1.803	34.649	3.04	2.81	149.	0.00	37.6	37.7	2500	1.74	34.656	3.11	27.738	36.7	2.856				
2563A	1.710	34.659	3.14	2.68	149.	0.00	37.0	36.3	2750	1.65	34.663	3.27	27.750	35.6	2.970				
2764A	1.649	34.663	3.28	2.63	149.	0.00	37.0	35.6	3000	1.62	34.671	3.34	27.764	34.8	3.064				
2963A	1.621	34.670	3.35	2.66	148.	0.00	36.7	34.9	3250	1.59	34.674	3.42	27.764	34.3	3.197				
3162A	1.599	34.672	3.39	2.70	148.	0.00	36.4	34.5	3500	1.58	34.678	3.47	27.767	34.0	3.310				
3362A	1.581	34.676	3.45	2.70	148.	0.00	36.2	34.1	3750	1.58	34.682	3.48	27.771	33.6	3.424				
3563A	1.578	34.678	3.47	2.66	148.	0.00	36.7	34.0											
3763A	1.575	34.682	3.48	2.64	148.	0.00	36.4	33.6											

37 D						INDOPAC LEG III						36 C					
LATITUDE	LONGITUDE	MO/DAY/YR	START TIME			LATITUDE	LONGITUDE	MO/DAY/YR	START TIME			LATITUDE	LONGITUDE	MO/DAY/YR	START TIME		
20 21, N	122 21, E	06/06/76	0000 GMT			22 22, ON	121 36, 9E	06/06/76	1523 GMT			22 22, ON	121 36, 9E	06/06/76	1523 GMT		
Z	T	S	SIGMA T	DT	DD	Z	T	S	SIGMA T	DT	DD	Z	T	S	SIGMA T	DT	DD
0	28.22	34.44	21.924	590.4	0.000	0	27.02	34.40	22.282	556.1	0.000	0	27.02	34.40	22.282	556.1	0.000
10	28.01	34.42	21.977	585.3	0.059	10	26.82	34.47	22.398	545.0	0.055	10	26.82	34.47	22.398	545.0	0.055
20	27.87	34.44	22.036	579.4	0.117	20	26.33	34.56	22.620	523.7	0.109	20	26.33	34.56	22.620	523.7	0.109
30	27.50	34.43	22.150	568.7	0.175	30	25.64	34.63	22.894	497.6	0.160	30	25.64	34.63	22.894	497.6	0.160
40	27.19	34.48	22.288	558.6	0.231	40	25.04	34.66	23.109	477.0	0.209	40	25.04	34.66	23.109	477.0	0.209
50	26.90	34.52	22.410	543.6	0.286	50	24.59	34.69	23.152	464.6	0.226	50	24.59	34.69	23.152	464.6	0.226
75	26.71	34.64	22.561	529.4	0.421	75	24.06	34.67	23.595	449.7	0.373	75	24.06	34.67	23.595	449.7	0.373
100	26.74	34.56	22.804	506.2	0.551	100	23.60	34.67	23.531	436.8	0.484	100	23.60	34.67	23.531	436.8	0.484
125	23.64	34.82	23.632	427.1	0.669	125	22.16	34.72	23.981	393.6	0.589	125	22.16	34.72	23.981	393.6	0.589
150	22.16	34.88	24.102	382.2	0.771	150	20.69	34.76	24.415	352.4	0.684	150	20.69	34.76	24.415	352.4	0.684
175	20.29	34.90	24.628	332.1	0.862	175	19.56	34.78	24.729	322.5	0.769	175	19.56	34.78	24.729	322.5	0.769
200	19.22	34.88	24.892	306.9	0.944	200	19.00	34.78	24.872	306.8	0.850	200	19.00	34.78	24.872	306.8	0.850
225	18.53	34.84	25.037	293.2	1.021	225	17.38	34.69	25.205	277.2	0.925	225	17.38	34.69	25.205	277.2	0.925
250	17.73	34.80	25.204	277.3	1.094	250	15.86	34.62	25.506	248.5	0.993	250	15.86	34.62	25.506	248.5	0.993
275	16.55	34.73	25.432	255.6	1.163	275	14.27	34.54	25.794	221.2	1.053	275	14.27	34.54	25.794	221.2	1.053
300	15.65	34.67	25.592	240.4	1.227	300	13.63	34.50	25.897	211.4	1.109	300	13.63	34.50	25.897	211.4	1.109
350	14.58	34.59	25.766	223.8	1.348	350	11.81	34.39	26.171	185.4	1.213	350	11.81	34.39	26.171	185.4	1.213
400	12.72	34.47	26.058	196.1	1.458	400	9.69	34.27	26.455	158.4	1.303	400	9.69	34.27	26.455	158.4	1.303
450	11.08	34.37	26.291	174.0	1.555	450	8.79	34.26	26.593	145.3	1.383	450	8.79	34.26	26.593	145.3	1.383
500	9.04	34.27	26.561	148.3	1.641	500	7.98	34.25	26.709	134.3	1.457	500	7.98	34.25	26.709	134.3	1.457
550	7.89	34.23	26.707	134.5	1.716	550	7.54	34.32	26.829	123.0	1.526	550	7.54	34.32	26.829	123.0	1.526
600	7.32	34.29	26.837	122.2	1.785	600	6.92	34.33	26.924	113.9	1.589	600	6.92	34.33	26.924	113.9	1.589
650	6.51	34.29	26.948	111.7	1.848	650	6.44	34.34	26.996	107.1	1.649	650	6.44	34.34	26.996	107.1	1.649
700	5.54	34.31	27.087	98.5	1.905	700	6.05	34.36	27.063	100.8	1.706	700	6.05	34.36	27.063	100.8	1.706
750	5.30	34.35	27.147	92.8	1.958	750	5.71	34.39	27.129	94.5	1.759	750	5.71	34.39	27.129	94.5	1.759
800	5.14	34.41	27.214	86.5	2.007	800	5.36	34.42	27.195	88.2	1.810	800	5.36	34.42	27.195	88.2	1.810
850	4.84	34.43	27.264	81.7	2.054	850	5.08	34.44	27.244	83.6	1.858	850	5.08	34.44	27.244	83.6	1.858
900	4.59	34.44	27.300	78.3	2.098	900	4.64	34.46	27.410	77.3	1.903	900	4.64	34.46	27.410	77.3	1.903
950	4.27	34.46	27.351	73.5	2.141	950	4.41	34.48	27.451	73.4	1.945	950	4.41	34.48	27.451	73.4	1.945
1000	4.07	34.48	27.388	70.0	2.181	1000	4.25	34.49	27.377	71.0	1.986	1000	4.25	34.49	27.377	71.0	1.986
1100	3.64	34.51	27.455	63.6	2.257	1100	3.77	34.53	27.458	63.3	2.063	1100	3.77	34.53	27.458	63.3	2.063
1200	3.32	34.54	27.510	58.3	2.327	1200	3.50	34.55	27.501	59.2	2.133	1200	3.50	34.55	27.501	59.2	2.133
1300	3.12	34.56	27.545	55.1	2.393	1300	3.30	34.56	27.528	56.6	2.201	1300	3.30	34.56	27.528	56.6	2.201
1400	3.02	34.58	27.570	52.7	2.456	1400	3.10	34.57	27.555	54.1	2.266	1400	3.10	34.57	27.555	54.1	2.266
1500	2.78	34.59	27.600	49.9	2.517	1500	2.92	34.58	27.579	51.8	2.329	1500	2.92	34.58	27.579	51.8	2.329
1600	2.625	34.598	27.620	48.0	2.575	1600	2.705	34.588	27.605	49.4	2.390	1600	2.705	34.588	27.605	49.4	2.390
1700	2.492	34.603	27.635	46.5	2.632	1700	2.549	34.598	27.627	47.3	2.448	1700	2.549	34.598	27.627	47.3	2.448
1800	2.355	34.615	27.657	44.5	2.687	1800	2.389	34.608	27.648	45.3	2.504	1800	2.389	34.608	27.648	45.3	2.504
1900	2.213	34.622	27.674	42.9	2.740	1900	2.303	34.615	27.661	44.1	2.558	1900	2.303	34.615	27.661	44.1	2.558
2000	2.146	34.628	27.684	41.9	2.792	2000	2.135	34.626	27.683	41.9	2.611	2000	2.135	34.626	27.683	41.9	2.611
2100	2.021	34.638	27.702	40.2	2.843	2100	2.004	34.636	27.702	40.2	2.661	2100	2.004	34.636	27.702	40.2	2.661
2200	1.921	34.645	27.716	38.9	2.891	2200	1.926	34.641	27.712	39.2	2.710	2200	1.926	34.641	27.712	39.2	2.710
2300	1.873	34.648	27.722	38.3	2.939	2300	1.852	34.645	27.721	38.4	2.758	2300	1.852	34.645	27.721	38.4	2.758
2400	1.797	34.654	27.732	37.3	2.987	2400	1.819	34.648	27.726	37.9	2.806	2400	1.819	34.648	27.726	37.9	2.806
2500	1.777	34.655	27.735	37.1	3.033	2500	1.766	34.653	27.734	37.2	2.853	2500	1.766	34.653	27.734	37.2	2.853
2600	1.723	34.659	27.742	36.4	3.080	2600	1.723	34.658	27.741	36.5	2.899	2600	1.723	34.658	27.741	36.5	2.899
2700	1.705	34.661	27.745	36.1	3.126	2700	1.690	34.661	27.746	36.0	2.945	2700	1.690	34.661	27.746	36.0	2.945
2800	1.680	34.663	27.748	35.8	3.172	2800	1.661	34.664	27.751	35.6	2.991	2800	1.661	34.664	27.751	35.6	2.991
2900	1.657	34.665	27.752	35.5	3.218	2900	1.641	34.666	27.754	35.3	3.037	2900	1.641	34.666	27.754	35.3	3.037
3000	1.623	34.669	27.757	34.9	3.263	3000	1.620	34.669	27.758	34.9	3.082	3000	1.620	34.669	27.758	34.9	3.082
3100	1.602	34.670	27.760	34.7	3.309	3100	1.609	34.671	27.760	34.7	3.127	3100	1.609	34.671	27.760	34.7	3.127
3200	1.580	34.673	27.764	34.3	3.354	3200	1.600	34.672	27.762	34.6	3.173	3200	1.600	34.672	27.762	34.6	3.173
						3300	1.597	34.675	27.764	34.3	3.218	3300	1.597	34.675	27.764	34.3	3.218
						3400	1.586	34.677	27.767	34.1	3.263	3400	1.586	34.677	27.767	34.1	3.263
						3500	1.582	34.678	27.768	34.0	3.309	3500	1.582	34.678	27.768	34.0	3.309
						3600	1.570	34.680	27.770	33.7	3.354	3600	1.570	34.680	27.770	33.7	3.354
						3700	1.569	34.681	27.771	33.7	3.400	3700	1.569	34.681	27.771	33.7	3.400
						3763	1.578	34.681	27.770	33.7	3.429	3763	1.578	34.681	27.770	33.7	3.429

RV THOMAS WASHINGTON

INDOPAC LEG III

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LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES
22 35. N	122 11. E	6/ 6/76	2223 0203	GWT	4600M	180	6KT	1	180 2 4
Z	T	S	Q2	P04	S103	N02	N03	DT	LD
0	28.20	34.505	4.63	0.05	2.	0.00	0.0	585.1	0.000
31	28.00	34.504	4.64	0.05	2.	0.00	0.0	578.9	0.058
55	27.48	34.482	4.66	0.07	2.	0.00	0.0	564.3	0.117
81	26.52	34.672	4.80	0.04	2.	0.00	0.0	521.4	0.175
106	25.20	34.724	4.63	0.11	2.	0.00	0.0	478.5	0.290
131	23.21	34.679	4.43	0.13	2.	0.04	0.4	410.9	0.428
161	22.19	34.850	4.58	0.13	2.	0.04	0.4	386.6	0.557
191	21.16	34.908	4.24	0.26	3.	0.00	1.6	353.8	0.673
220	18.96	34.864	4.30	0.27	4.	0.00	3.3	301.8	0.776
260	17.22	34.764	4.55	0.36	5.	0.00	5.2	268.2	0.962
299	15.85	34.686	4.43	0.57	10.	0.00	8.3	243.5	1.119
349	14.24	34.570	4.13	0.83	14.	0.00	11.8	218.4	1.252
397	12.88	34.498	3.79	1.15	24.	0.00	15.1	197.1	1.481
443A	11.40	34.447	3.19	1.51	37.	0.00	18.8	173.9	1.665
518	9.09	34.318	2.86	1.82	48.	0.00	26.4	145.5	1.811
594A	7.11	34.259	2.28	2.46	66.	0.00	26.8	121.7	1.930
747A	5.57	34.378	1.87	2.68	89.	0.00	32.6	93.7	2.033
912A	4.49	34.454	1.85	2.74	111.	0.00	36.0	76.2	2.208
1111A	3.68	34.529	2.11	2.71	127.	0.00	38.0	62.5	2.354
1360A	2.99	34.564	2.26	2.82	138.	0.00	38.0	53.6	2.546
1610A	2.61	34.593	2.40	2.83	143.	0.00	38.0	48.2	2.689
1909A	2.22	34.619	2.64	2.74	147.	0.00	39.7	43.1	2.822
2207A	1.882	34.646	2.86	2.72	150.	0.00	38.5	38.5	2.943
2506A	1.719	34.660	3.10	2.61	150.	0.00	37.9	36.3	3.061
2806A	1.623	34.668	3.27	2.62	149.	0.00	37.9	35.0	3.174
3105A	1.573	34.675	3.30	2.59	149.	0.00	37.4	34.1	3.286
3404A	1.550	34.677	3.39	2.57	149.	0.00	37.2	33.8	3.397
3655A	1.560	34.680	3.46	2.57	150.	0.00	34.9	33.7	3.509
3904A	1.570	34.682	3.46	2.54	149.	0.00	35.5	33.6	3.623
4203A	1.591	34.684	3.50	2.60	149.	0.00	35.6	33.6	3.739
4503A	1.616	34.685	3.52	2.65	149.	0.00	36.1	33.7	3.856
4803A	1.642	34.686	3.51	2.57	149.	0.00	36.3	33.8	3.976
								4750	4.099

RV THOMAS WASHINGTON

INDOPAC LEG III

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LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES
22 35.3N	123 06.1E	6/ 7/76	0919 1340	GWT	5661M	140	7KT	1	
Z	T	S	Q2	P04	S103	N02	N03	DT	LD
0	27.86	34.640	4.71	0.03	2.	0.00	0.0	564.8	0.000
20	27.34	34.634	4.73	0.01	2.	0.00	0.0	549.1	0.056
41	26.85	34.616	4.77	0.01	2.	0.00	0.1	535.4	0.111
60	26.58	34.632	4.83	0.02	2.	0.00	0.1	526.1	0.166
86	24.85	34.683	4.99	0.03	2.	0.00	0.1	471.3	0.274
121	23.95	34.695	4.94	0.03	2.	0.00	0.1	444.8	0.403
151	22.73	34.714	4.73	0.04	2.	0.13	0.4	409.6	0.523
181	21.78	34.749	4.65	0.11	2.	0.04	1.4	381.6	0.637
220	20.64	34.843	4.44	0.17	3.	0.03	2.7	345.1	0.744
260	19.21	34.831	4.46	0.23	4.	0.00	4.0	310.2	0.941
310	17.51	34.790	4.53	0.32	5.	0.00	5.6	272.9	1.116
368	16.27	34.718	4.51	0.42	8.	0.00	7.6	250.3	1.270
438	14.22	34.569	4.17	0.78	15.	0.00	12.4	218.1	1.538
506	11.63	34.389	3.55	1.36	24.	0.00	19.6	182.2	1.761
576	9.60	34.326	2.98	1.78	42.	0.00	25.7	152.3	1.938
657	8.04	34.344	2.59	2.06	62.	0.00	30.4	128.1	2.081
739	6.95	34.378	2.37	2.33	76.	0.00	33.4	110.8	2.202
814A	6.12	34.372	2.05	2.38	86.	0.00	35.1	100.7	2.405
913A	5.23	34.410	1.97	2.63	99.	0.00	37.1	87.5	2.567
1013A	4.59	34.451	1.93	2.82	110.	0.00	38.2	77.5	2.767
1113A	4.05	34.496	2.04	2.79	120.	0.00	38.7	68.6	2.913
1263A	3.37	34.535	2.12	2.85	131.	0.00	39.0	59.2	3.046
1513A	2.79	34.571	2.33	2.81	141.	0.00	39.5	51.4	3.170
1762A	2.37	34.600	2.48	2.81	146.	0.00	39.6	45.8	3.289
2013A	2.10	34.624	2.71	2.78	147.	0.00	39.4	41.8	3.404
2314A	1.85	34.647	2.93	2.76	149.	0.00	39.0	38.2	3.517
2614A	1.70	34.657	3.15	2.67	149.	0.00	38.5	36.4	3.630
2915A	1.625	34.667	3.28	2.63	149.	0.00	38.1	35.1	3.744
3218A	1.586	34.672	3.38	2.62	149.	0.00	38.0	34.5	3.858
3520A	1.564	34.676	3.46	2.61	149.	0.00	37.9	34.0	3.974
3799P	1.573	34.679	3.52	2.60	148.	0.00	37.7	33.8	4.093
4062P	1.581	34.680	3.51	2.59	148.	0.00	37.7	33.8	4.214
4310P	1.608	34.679	3.57	2.59	148.	0.00	37.6	34.1	4.337
4564P	1.628	34.683	3.55	2.59	148.	0.00	37.6	33.9	4.463
4814P	1.651	34.683	3.58	2.58	147.	0.00	37.7	34.1	4.592
5096P	1.680	34.682	3.57	2.56	147.	0.00	37.7	34.4	
5356P	1.712	34.683	3.61	2.61	147.	0.00	37.8	34.5	

P) THESE NANSEN BOTTLES POSTTRIPPED, CAUSING THE DEPTHS TO BE UNCERTAIN.

39 D						INDOPAC LEG III						40 C					
LATITUDE		LONGITUDE		MO/DAY/YR		START TIME		LATITUDE		LONGITUDE		MO/DAY/YR		START TIME			
22 35. N		122 11. E		06/06/76		2042 GMT		22 35.3N		125 06.1E		06/07/76		0718 GMT			
Z	T	S	SIGMA T	LT	DD			Z	T	S	SIGMA T	LT	DD				
0	27.99	34.47	22.021	581.0	0.000			0	28.34	34.59	21.997	563.4	0.000				
10	27.99	34.50	22.044	578.9	0.056			10	27.67	34.60	22.158	567.9	0.058				
20	27.99	34.51	22.051	578.2	0.116			20	27.44	34.64	22.327	551.7	0.114				
30	27.96	34.52	22.069	576.5	0.174			30	27.03	34.64	22.459	539.1	0.168				
40	27.91	34.51	22.078	575.7	0.232			40	26.63	34.64	22.586	527.0	0.222				
50	27.80	34.50	22.106	573.0	0.289			50	26.06	34.65	22.772	509.2	0.274				
75	26.95	34.57	22.432	541.7	0.429			75	24.80	34.70	23.197	468.6	0.397				
100	25.67	34.72	22.946	492.6	0.555			100	23.69	34.71	23.476	442.0	0.511				
125	24.28	34.86	23.473	442.2	0.677			125	22.93	34.73	23.770	413.9	0.619				
150	22.75	34.86	23.920	399.6	0.784			150	22.29	34.74	23.959	395.6	0.722				
175	21.62	34.90	24.268	366.4	0.861			175	21.94	34.81	24.105	381.9	0.821				
200	20.35	34.93	24.635	331.4	0.970			200	21.08	34.82	24.355	358.1	0.915				
225	18.41	34.84	25.067	290.3	1.050			225	20.16	34.87	24.640	331.0	1.003				
250	17.16	34.76	25.311	267.1	1.121			250	19.16	34.81	24.854	310.5	1.085				
275	16.38	34.69	25.441	254.8	1.188			275	18.79	34.81	24.999	301.6	1.164				
300	16.15	34.70	25.501	249.0	1.254			300	18.06	34.81	25.131	284.2	1.239				
350	14.80	34.61	25.734	226.9	1.377			350	16.15	34.70	25.501	249.0	1.378				
400	13.32	34.51	25.968	204.6	1.490			400	14.90	34.61	25.712	229.0	1.503				
450	10.98	34.43	26.355	167.9	1.589			450	12.76	34.44	26.027	199.1	1.616				
500	8.81	34.30	26.621	142.6	1.671			500	11.19	34.36	26.263	176.7	1.715				
550	7.79	34.24	26.730	132.4	1.745			550	9.84	34.32	26.469	157.1	1.805				
600	7.12	34.26	26.841	121.8	1.813			600	8.81	34.33	26.645	140.4	1.885				
650	6.46	34.33	26.986	108.1	1.875			650	7.98	34.31	26.761	129.4	1.958				
700	6.00	34.32	27.038	103.2	1.933			700	7.33	34.34	26.874	118.6	2.025				
750	5.64	34.35	27.106	96.7	1.987			750	6.94	34.36	26.945	112.0	2.089				
800	5.30	34.36	27.155	92.0	2.039			800	6.29	34.36	27.032	103.7	2.148				
850	4.95	34.39	27.220	85.9	2.086			850	5.55	34.38	27.141	93.4	2.203				
900	4.64	34.43	27.287	79.6	2.134			900	5.15	34.43	27.228	85.1	2.253				
950	4.39	34.46	27.338	74.7	2.178			950	4.74	34.43	27.275	80.6	2.299				
1000	4.20	34.48	27.374	71.3	2.219			1000	4.47	34.45	27.321	76.3	2.344				
1100	3.81	34.51	27.438	65.2	2.297			1100	3.89	34.49	27.414	67.4	2.425				
1200	3.44	34.54	27.499	59.4	2.368			1200	3.54	34.52	27.473	61.9	2.500				
1300	3.12	34.55	27.537	55.8	2.435			1300	3.18	34.54	27.524	57.1	2.569				
1400	2.90	34.57	27.573	52.4	2.499			1400	2.96	34.55	27.552	54.4	2.634				
1500	2.74	34.58	27.596	50.3	2.559			1500	2.74	34.58	27.596	50.3	2.695				
1600	2.562	34.593	27.622	47.8	2.617			1600	2.602	34.581	27.608	49.1	2.754				
1700	2.388	34.605	27.646	45.5	2.673			1700	2.452	34.591	27.629	47.1	2.812				
1800	2.286	34.613	27.661	44.1	2.727			1800	2.336	34.606	27.651	45.0	2.867				
1900	2.128	34.624	27.682	42.1	2.779			1900	2.204	34.614	27.668	43.4	2.921				
2000	2.034	34.631	27.695	40.8	2.830			2000	2.096	34.624	27.685	41.8	2.973				
2100	1.931	34.640	27.711	39.4	2.879			2100	2.007	34.634	27.700	40.4	3.023				
2200	1.853	34.644	27.720	38.5	2.927			2200	1.948	34.638	27.708	39.6	3.072				
2300	1.817	34.647	27.725	38.0	2.974			2300	1.882	34.645	27.719	38.6	3.121				
2400	1.756	34.652	27.734	37.2	3.021			2400	1.831	34.650	27.727	37.9	3.169				
2500	1.710	34.656	27.740	36.5	3.067			2500	1.769	34.653	27.734	37.2	3.216				
2600	1.674	34.660	27.746	36.0	3.112			2600	1.729	34.656	27.739	36.7	3.262				
2700	1.650	34.663	27.751	35.6	3.158			2700	1.677	34.660	27.746	36.0	3.308				
2800	1.626	34.666	27.755	35.2	3.203			2800	1.650	34.661	27.749	35.7	3.354				
2900	1.601	34.669	27.759	34.8	3.247			2900	1.638	34.662	27.751	35.6	3.400				
3000	1.588	34.671	27.762	34.5	3.292			3000	1.621	34.664	27.754	35.3	3.445				
3100	1.580	34.673	27.764	34.3	3.337			3100	1.605	34.667	27.757	35.0	3.491				
3200	1.565	34.676	27.767	34.0	3.382			3200	1.595	34.669	27.760	34.7	3.537				
3300	1.562	34.678	27.769	33.6	3.426			3300	1.578	34.671	27.762	34.5	3.582				
3400	1.556	34.680	27.771	33.6	3.471			3400	1.569	34.673	27.765	34.3	3.627				
3500	1.552	34.679	27.771	33.7	3.516			3500	1.567	34.674	27.766	34.2	3.673				
3600	1.553	34.680	27.771	33.6	3.561			3600	1.562	34.676	27.766	34.0	3.719				
3700	1.559	34.681	27.772	33.6	3.606			3700	1.565	34.676	27.767	34.0	3.765				
3800	1.563	34.682	27.772	33.5	3.652			3800	1.566	34.677	27.768	33.9	3.811				
3900	1.570	34.683	27.772	33.5	3.698			3900	1.575	34.678	27.768	33.9	3.857				
4000	1.575	34.683	27.772	33.5	3.744			4000	1.582	34.679	27.768	33.9	3.904				
4100	1.580	34.684	27.773	33.5	3.791			4100	1.589	34.679	27.768	34.0	3.951				
4200	1.587	34.685	27.773	33.5	3.838			4200	1.597	34.680	27.768	33.9	3.999				
4300	1.597	34.686	27.773	33.5	3.886			4300	1.605	34.681	27.768	33.9	4.046				
4400	1.606	34.686	27.772	33.5	3.933			4400	1.612	34.681	27.768	34.0	4.095				
4500	1.613	34.686	27.772	33.6	3.981			4500	1.619	34.682	27.768	33.9	4.143				
4600	1.623	34.686	27.771	33.7	4.030			4600	1.627	34.682	27.768	34.0	4.192				
4700	1.634	34.687	27.771	33.7	4.079			4700	1.636	34.682	27.767	34.0	4.241				
4800	1.642	34.685	27.769	33.9	4.129			4800	1.644	34.683	27.767	34.0	4.291				
								4900	1.655	34.683	27.766	34.1	4.341				
								5000	1.667	34.683	27.765	34.2	4.392				
								5100	1.678	34.683	27.765	34.3	4.443				
								5200	1.690	34.683	27.764	34.4	4.495				
								5300	1.703	34.683	27.763	34.5	4.547				
								5400	1.717	34.683	27.762	34.5	4.600				
								5500	1.729	34.683	27.761	34.6	4.653				
								5600	1.743	34.683	27.760	34.7	4.707				
								5636	1.748	34.683	27.759	34.8	4.726				

RV THOMAS WASHINGTON

INDOPAC LEG III

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LATITUDE 22 36.7N		LONGITUDE 124 19.5E		MO/DAY/YR 6/ 8/76		MESSENGER TIME 0448 0817 GMT		BOTTOM 5735M	WIND 190	SPEED 13KT	WEATHER 1	DOMINANT WAVES 180 2 4			
Z	T	S	O2	P04	S103	N02	N03	DT	Z	T	S	O2	SIGT	DT	DD
0	27.79	34.563	4.77	0.06	2.	0.00	0.0	568.1	0	27.79	34.563	4.77	22.156	568.1	0.000
20	27.46	34.563	4.69	0.06	2.	0.00	0.0	557.9	10	27.66	34.559	4.71	22.195	564.4	0.057
40	26.84	34.600	4.73	0.09	2.	0.00	0.0	536.2	20	27.46	34.563	4.69	22.263	557.9	0.113
60	26.08	34.639	4.88	0.07	2.	0.00	0.1	510.5	30	27.18	34.580	4.71	22.366	548.0	0.168
86	25.29	34.657	4.92	0.07	2.	0.00	0.3	485.9	50	26.46	34.622	4.80	22.625	523.3	0.276
116	24.32	34.681	4.87	0.07	2.	0.14	0.1	456.2	75	25.61	34.653	4.90	22.912	495.8	0.404
146	23.44	34.687	4.78	0.07	2.	0.04	0.3	431.1	100	24.84	34.670	4.91	23.163	471.9	0.526
180	23.03	34.706	4.63	0.10	2.	0.01	0.3	418.4	125	24.03	34.684	4.85	23.415	447.8	0.642
220	22.06	34.740	4.55	0.13	2.	0.00	0.8	389.7	150	23.39	34.690	4.76	23.607	429.4	0.753
260	21.12	34.783	4.73	0.13	2.	0.00	0.8	361.6	200	22.58	34.722	4.59	23.864	404.9	0.964
300	19.86	34.848	4.40	0.23	4.	0.00	2.6	325.0	250	21.37	34.771	4.70	24.239	369.2	1.162
340	17.89	34.801	4.49	0.29	5.	0.00	4.4	280.9	300	19.86	34.848	4.40	24.702	325.0	1.341
390	16.52	34.733	4.66	0.45	7.	0.00	6.2	254.7	400	16.21	34.712	4.61	25.496	249.5	1.639
449	14.47	34.578	4.20	0.77	13.	0.00	11.6	222.5	500	12.12	34.417	3.65	26.133	189.0	1.871
508	11.75	34.396	3.56	1.27	24.	0.00	18.5	183.8	600	8.91	34.300	2.75	26.604	144.3	2.049
578	9.38	34.307	2.90	1.81	40.	0.00	26.2	150.8	700	7.10	34.278	2.28	26.857	120.2	2.193
648	8.08	34.289	2.50	2.13	55.	0.00	29.8	132.8	800	6.11	34.352	2.00	27.049	102.1	2.315
723	6.72	34.279	2.20	2.41	71.	0.00	34.6	115.2	1000	4.61	34.446	1.88	27.302	78.1	2.516
841A	3.90	34.393	1.94	2.48	89.	0.00	36.0	96.5	1200	3.68	34.504	1.94	27.447	64.4	2.679
940A	3.04	34.422	1.89	2.64	103.	0.00	37.4	84.5	1500	2.85	34.565	2.25	27.573	52.4	2.883
1040A	4.37	34.460	1.88	2.76	114.	0.00	38.1	74.5	1750	2.49	34.592	2.41	27.626	47.4	3.032
1139A	3.91	34.484	1.87	2.79	122.	0.00	39.2	68.1	2000	2.21	34.616	2.59	27.668	43.5	3.170
1338A	3.24	34.544	2.14	2.74	131.	0.00	38.7	57.3	2250	1.97	34.637	2.81	27.705	39.8	3.298
1539A	2.77	34.567	2.27	2.83	142.	0.00	40.0	51.5	2500	1.79	34.652	3.03	27.731	37.4	3.419
1838A	2.40	34.600	2.47	2.80	145.	0.00	39.0	46.0	2750	1.69	34.661	3.17	27.746	36.0	3.535
2138A	2.07	34.629	2.70	2.71	147.	0.00	39.0	41.2	3000	1.63	34.669	3.25	27.757	35.0	3.649
2439A	1.82	34.650	2.98	2.68	150.	0.00	38.7	37.8	3250	1.60	34.672	3.36	27.761	34.6	3.763
2740A	1.69	34.660	3.17	2.62	150.	0.00	38.4	36.1	3500	1.58	34.675	3.46	27.765	34.3	3.877
3040A	1.619	34.670	3.26	2.59	149.	0.00	37.7	34.8	3750	1.57	34.678	3.50	27.768	33.9	3.992
3342A	1.591	34.672	3.41	2.58	149.	0.00	37.7	34.5	4000	1.58	34.681	3.53	27.770	33.7	4.108
3643A	1.570	34.676	3.49	2.55	149.	0.00	37.3	34.0	4250	1.59	34.683	3.55	27.770	33.7	4.226
3944A	1.572	34.680	3.52	2.60	149.	0.00	36.7	33.7	4500	1.61	34.684	3.58	27.769	33.8	4.346
4246A	1.591	34.682	3.55	2.56	149.	0.00	37.3	33.7	4750	1.64	34.684	3.60	27.768	34.0	4.469
4546A	1.618	34.683	3.59	2.54	148.	0.00	37.2	33.8	5000	1.66	34.684	3.63	27.766	34.2	4.595
4847A	1.646	34.683	3.60	2.55	148.	0.00	37.5	34.0	5250	1.69	34.684	3.66	27.764	34.3	4.723
5149A	1.679	34.683	3.66	2.54	148.	0.00	37.9	34.3	5500	1.73	34.685	3.66	27.761	34.5	4.855
5449A	1.721	34.684	3.66	2.53	148.	0.00	38.2	34.5							
5748A	1.763	34.684	3.67	2.57	147.	0.01		34.8							

RV THOMAS WASHINGTON

INDOPAC LEG III

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LATITUDE 23 14.5N		LONGITUDE 124 43.4E		MO/DAY/YR 6/ 8/76		MESSENGER TIME 1446 1912 GMT		BOTTOM 6566M	WIND 180	SPEED 15KT	WEATHER 1	DOMINANT WAVES 180 5 6			
Z	T	S	O2	P04	S103	N02	N03	DT	Z	T	S	O2	SIGT	DT	DD
0	27.54	34.634	4.68	0.07	2.	0.00	0.2	555.3	0	27.54	34.634	4.68	22.291	555.3	0.000
10	27.54	34.635	4.69	0.04	2.	0.00	0.2	555.2	10	27.54	34.635	4.69	22.291	555.2	0.056
31	27.35	34.618	4.71	0.03	2.	0.00	0.2	550.5	20	27.46	34.629	4.70	22.312	553.2	0.111
51	27.26	34.608	4.70	0.03	2.	0.00	0.2	548.5	30	27.36	34.620	4.71	22.337	550.8	0.166
82	25.76	34.648	4.89	0.07	2.	0.00	0.2	500.4	50	27.26	34.610	4.70	22.360	548.6	0.277
112	24.50	34.680	4.85	0.07	2.	0.00	0.2	461.5	75	26.16	34.636	4.85	22.729	513.3	0.410
152	23.30	34.685	4.80	0.07	2.	0.13	0.1	427.3	100	24.97	34.670	4.87	23.121	475.9	0.534
192	22.31	34.746	4.62	0.13	2.	0.03	0.7	395.9	125	24.07	34.682	4.84	23.401	449.1	0.651
232	20.76	34.826	4.41	0.18	3.	0.00	2.1	349.4	150	23.35	34.685	4.80	23.614	428.8	0.762
272	19.26	34.830	4.39	0.30	5.	0.00	3.8	311.5	200	22.02	34.764	4.57	24.053	386.9	0.969
351	16.77	34.746	4.43	0.45	7.	0.00	6.1	259.3	250	20.07	34.834	4.40	24.636	331.4	1.153
449	12.54	34.450	3.80	1.09	21.	0.00	15.8	194.3	300	18.39	34.819	4.40	25.056	291.3	1.313
547	9.97	34.341	3.16	1.66	38.	0.00	23.2	157.7	400	14.63	34.589	4.16	25.753	225.0	1.582
647	7.71	34.302	2.39	2.18	60.	0.00	31.2	126.6	500	11.08	34.383	3.47	26.501	173.1	1.793
746	6.16	34.320	1.96	2.63	79.	0.00	35.2	105.1	600	8.71	34.312	2.74	26.647	140.2	1.961
849	5.39	34.379	1.85	2.64	92.	0.00	35.7	91.6	700	6.79	34.307	2.12	26.923	114.0	2.099
883A	4.95	34.410	1.87	2.57	101.	0.00	35.3	84.4	800	5.76	34.348	1.90	27.089	98.2	2.215
1031A	4.48	34.491	2.13	2.48	113.	0.00	35.0	73.3	1000	4.58	34.494	2.08	27.343	74.2	2.404
1177A	3.59	34.518	2.08	2.57	129.	0.00	36.2	62.5	1200	3.50	34.524	2.10	27.480	61.2	2.563
1375A	3.02	34.563	2.25	2.63	137.	0.00	37.3	53.9	1500	2.75	34.577	2.29	27.591	50.7	2.759
1572A	2.62	34.581	2.32	2.64	140.	0.00	37.7	49.2	1750	2.36	34.601	2.49	27.644	45.7	2.903
1768A	2.34	34.602	2.51	2.70	146.	0.00	38.0	45.4	2000	2.07	34.625	2.72	27.687	41.5	3.035
2062A	2.01	34.631	2.77	2.61	148.	0.00	37.7	40.6	2250	1.88	34.642	2.90	27.716	38.7	3.158
2357A	1.82	34.649	2.97	2.49	149.	0.00	37.6	37.9	2500	1.75	34.654	3.06	27.735	36.9	3.276
2651A	1.69	34.659	3.15	2.52	150.	0.00	37.3	36.2	2750	1.66	34.662	3.20	27.749	35.7	3.391
2945A	1.61	34.667	3.28	2.46	149.	0.00	38.0	35.0	3000	1.60	34.669	3.30	27.758	34.8	3.504
3240A	1.569	34.673	3.37	2.54	150.	0.00	36.5	34.3	3250	1.57	34.674	3.37	27.765	34.2	3.617
3534A	1.551	34.676	3.41	2.43	150.	0.00	37.0	33.9	3500	1.55	34.676	3.41	27.768	33.9	3.730
3828A	1.546	34.679	3.53	2.53	149.	0.00	36.9	33.7	3750	1.55	34.679	3.50	27.770	33.7	3.843
4124A	1.575	34.681	3.53	2.49	148.	0.00	36.5	33.7	4000	1.56	34.681	3.53	27.771	33.7	3.959
4420A	1.589	34.681	3.52	2.48	148.	0.00	36.4	33.8	4250	1.58	34.682	3.53	27.770	33.7	4.076
4715A	1.634	34.682	3.53	2.51	147.	0.00	37.0	34.0	4500	1.60	34.682	3.52	27.769	33.9	4.196
5012A	1.667	34.683	3.53	2.48	147.	0.00	37.5	34.2	4750	1.64	34.683	3.53	27.767	34.1	4.319
5308A	1.701	34.683	3.58	2.47	147.	0.00	37.6	34.4	5000	1.67	34.684	3.53	27.765	34.2	4.445
5605A	1.742	34.683	3.59	2.47	147.	0.00	37.6	34.7	5250	1.69	34.684	3.57	27.763	34.4	4.574
5902A	1.784	34.684	3.61	2.46	147.	0.00	37.7	35.0	5500	1.73	34.684	3.59	27.761	34.6	4.705

41 D						INDOPAC LEG III						42 D					
LATITUDE	LONGITUDE	MO/DAY/YR	START TIME			LATITUDE	LONGITUDE	MO/DAY/YR	START TIME			LATITUDE	LONGITUDE	MO/DAY/YR	START TIME		
22 36.7N	124 19.5E	06/08/76	0257 GMT			23 14.5N	124 43.4E	06/08/76	1238 GMT			23 14.5N	124 43.4E	06/08/76	1238 GMT		
Z	T	S	SIGMA T	DT	DO	Z	T	S	SIGMA T	DT	DO	Z	T	S	SIGMA T	DT	DO
0	27.81	34.54	22.153	570.4	0.000	0	27.60	34.63	22.268	557.4	0.000	0	27.60	34.63	22.268	557.4	0.000
10	27.81	34.54	22.153	570.4	0.057	10	27.60	34.63	22.268	557.4	0.056	10	27.60	34.63	22.268	557.4	0.056
20	27.80	34.58	22.205	565.5	0.114	20	27.58	34.63	22.275	556.8	0.112	20	27.58	34.63	22.275	556.8	0.112
30	27.49	34.58	22.266	557.6	0.170	30	27.44	34.64	22.327	551.7	0.167	30	27.44	34.64	22.327	551.7	0.167
40	27.30	34.59	22.335	551.0	0.226	40	27.35	34.64	22.357	549.0	0.222	40	27.35	34.64	22.357	549.0	0.222
50	26.95	34.61	22.462	538.9	0.280	50	27.28	34.63	22.371	547.5	0.277	50	27.28	34.63	22.371	547.5	0.277
75	25.96	34.66	22.811	505.5	0.411	75	26.38	34.62	22.650	520.9	0.411	75	26.38	34.62	22.650	520.9	0.411
100	24.90	34.70	23.166	471.5	0.534	100	25.16	34.67	23.065	481.2	0.538	100	25.16	34.67	23.065	481.2	0.538
125	24.04	34.70	23.424	447.0	0.650	125	23.96	34.69	23.440	445.4	0.654	125	23.96	34.69	23.440	445.4	0.654
150	23.61	34.71	23.558	434.1	0.762	150	23.23	34.68	23.646	425.8	0.765	150	23.23	34.68	23.646	425.8	0.765
175	22.95	34.69	23.734	417.4	0.870	175	22.80	34.73	23.807	410.4	0.871	175	22.80	34.73	23.807	410.4	0.871
200	22.36	34.71	23.917	399.9	0.974	200	22.11	34.78	24.040	398.1	0.972	200	22.11	34.78	24.040	398.1	0.972
225	21.86	34.78	24.110	381.5	1.073	225	21.59	34.87	24.253	387.8	1.069	225	21.59	34.87	24.253	387.8	1.069
250	21.06	34.79	24.338	359.7	1.168	250	20.33	34.82	24.557	358.9	1.159	250	20.33	34.82	24.557	358.9	1.159
275	20.16	34.84	24.617	333.1	1.257	275	19.40	34.82	24.800	315.7	1.243	275	19.40	34.82	24.800	315.7	1.243
300	19.28	34.87	24.869	309.1	1.340	300	18.61	34.81	24.994	297.3	1.322	300	18.61	34.81	24.994	297.3	1.322
350	17.41	34.78	25.266	271.3	1.490	350	16.71	34.72	25.387	259.9	1.467	350	16.71	34.72	25.387	259.9	1.467
400	16.08	34.70	25.518	247.5	1.626	400	15.32	34.61	25.620	237.7	1.597	400	15.32	34.61	25.620	237.7	1.597
450	14.89	34.61	25.714	228.8	1.751	450	13.37	34.48	25.935	207.8	1.714	450	13.37	34.48	25.935	207.8	1.714
500	12.66	34.45	26.054	196.5	1.864	500	11.52	34.40	26.233	179.5	1.817	500	11.52	34.40	26.233	179.5	1.817
550	10.58	34.33	26.349	168.5	1.961	550	10.30	34.36	26.421	161.6	1.908	550	10.30	34.36	26.421	161.6	1.908
600	9.00	34.30	26.591	145.5	2.046	600	8.51	34.27	26.645	140.4	1.990	600	8.51	34.27	26.645	140.4	1.990
650	8.10	34.28	26.715	133.8	2.121	650	7.78	34.28	26.762	129.3	2.062	650	7.78	34.28	26.762	129.3	2.062
700	7.16	34.26	26.836	122.3	2.191	700	6.63	34.28	26.924	113.9	2.128	700	6.63	34.28	26.924	113.9	2.128
750	6.63	34.29	26.932	113.2	2.255	750	6.12	34.30	27.007	106.1	2.169	750	6.12	34.30	27.007	106.1	2.169
800	6.16	34.34	27.033	103.6	2.315	800	5.81	34.33	27.069	100.1	2.245	800	5.81	34.33	27.069	100.1	2.245
850	5.70	34.39	27.130	94.4	2.370	850	5.42	34.38	27.157	91.9	2.298	850	5.42	34.38	27.157	91.9	2.298
900	5.27	34.42	27.206	87.2	2.421	900	4.91	34.40	27.232	84.7	2.348	900	4.91	34.40	27.232	84.7	2.348
950	4.87	34.42	27.253	82.8	2.468	950	4.64	34.42	27.279	80.3	2.394	950	4.64	34.42	27.279	80.3	2.394
1000	4.44	34.44	27.316	76.7	2.513	1000	4.47	34.45	27.321	76.3	2.438	1000	4.47	34.45	27.321	76.3	2.438
1100	4.01	34.47	27.386	70.1	2.597	1100	4.06	34.49	27.397	69.1	2.521	1100	4.06	34.49	27.397	69.1	2.521
1200	3.66	34.50	27.445	64.5	2.674	1200	3.55	34.51	27.464	62.7	2.596	1200	3.55	34.51	27.464	62.7	2.596
1300	3.39	34.53	27.496	59.7	2.746	1300	3.24	34.53	27.510	58.4	2.667	1300	3.24	34.53	27.510	58.4	2.667
1400	3.05	34.55	27.544	55.2	2.813	1400	3.01	34.55	27.547	54.8	2.733	1400	3.01	34.55	27.547	54.8	2.733
1500	2.86	34.57	27.577	52.0	2.876	1500	2.82	34.57	27.580	51.7	2.796	1500	2.82	34.57	27.580	51.7	2.796
1600	2.648	34.575	27.600	49.9	2.937	1600	2.601	34.570	27.600	49.9	2.856	1600	2.601	34.570	27.600	49.9	2.856
1700	2.342	34.590	27.621	47.9	2.996	1700	2.447	34.583	27.623	47.6	2.914	1700	2.447	34.583	27.623	47.6	2.914
1800	2.441	34.600	27.637	46.3	3.052	1800	2.334	34.597	27.644	45.7	2.970	1800	2.334	34.597	27.644	45.7	2.970
1900	2.303	34.610	27.657	44.5	3.108	1900	2.221	34.607	27.661	44.0	3.024	1900	2.221	34.607	27.661	44.0	3.024
2000	2.181	34.622	27.677	42.6	3.161	2000	2.104	34.618	27.680	42.3	3.077	2000	2.104	34.618	27.680	42.3	3.077
2100	2.090	34.630	27.690	41.3	3.212	2100	2.023	34.627	27.693	41.0	3.128	2100	2.023	34.627	27.693	41.0	3.128
2200	1.975	34.639	27.706	39.8	3.263	2200	1.934	34.637	27.708	39.6	3.177	2200	1.934	34.637	27.708	39.6	3.177
2300	1.893	34.646	27.719	38.6	3.311	2300	1.865	34.643	27.718	38.6	3.226	2300	1.865	34.643	27.718	38.6	3.226
2400	1.821	34.649	27.727	37.9	3.359	2400	1.804	34.648	27.727	37.8	3.273	2400	1.804	34.648	27.727	37.8	3.273
2500	1.759	34.649	27.731	37.4	3.406	2500	1.765	34.653	27.734	37.2	3.320	2500	1.765	34.653	27.734	37.2	3.320
2600	1.710	34.654	27.739	36.7	3.453	2600	1.720	34.657	27.740	36.5	3.367	2600	1.720	34.657	27.740	36.5	3.367
2700	1.675	34.658	27.745	36.1	3.499	2700	1.685	34.661	27.746	36.0	3.413	2700	1.685	34.661	27.746	36.0	3.413
2800	1.662	34.660	27.747	35.9	3.545	2800	1.665	34.663	27.749	35.7	3.459	2800	1.665	34.663	27.749	35.7	3.459
2900	1.637	34.663	27.752	35.5	3.591	2900	1.643	34.665	27.753	35.4	3.504	2900	1.643	34.665	27.753	35.4	3.504
3000	1.617	34.666	27.755	35.1	3.636	3000	1.621	34.668	27.757	35.0	3.550	3000	1.621	34.668	27.757	35.0	3.550
3100	1.600	34.668	27.758	34.9	3.682	3100	1.604	34.670	27.760	34.7	3.595	3100	1.604	34.670	27.760	34.7	3.595
3200	1.593	34.670	27.760	34.7	3.727	3200	1.587	34.672	27.763	34.5	3.640	3200	1.587	34.672	27.763	34.5	3.640
3300	1.590	34.672	27.762	34.5	3.772	3300	1.580	34.673	27.764	34.3	3.685	3300	1.580	34.673	27.764	34.3	3.685
3400	1.578	34.674	27.765	34.2	3.818	3400	1.570	34.674	27.765	34.2	3.731	3400	1.570	34.674	27.765	34.2	3.731
3500	1.573	34.677	27.767	34.0	3.863	3500	1.567	34.676	27.767	34.0	3.776	3500	1.567	34.676	27.767	34.0	3.776
3600	1.570	34.677	27.768	34.0	3.909	3600	1.567	34.676	27.767	34.0	3.822	3600	1.567	34.676	27.767	34.0	3.822
3700	1.569	34.678	27.769	33.9	3.955	3700	1.564	34.678	27.769	33.9	3.868	3700	1.564	34.678	27.769	33.9	3.868
3800	1.569	34.680	27.770	33.7	4.001	3800	1.567	34.679	27.770	33.8	3.914	3800	1.567	34.679	27.770	33.8	3.914
3900	1.569	34.680	27.770	33.7	4.047	3900	1.568	34.679	27.769	33.6	3.960	3900	1.568	34.679	27.769	33.6	3.960
4000	1.571	34.683	27.772	33.5	4.094	4000	1.572	34.681	27.771	33.7	4.006	4000	1.572	34.681	27.771	33.7	4.006
4100	1.577	34.684	27.773	33.5	4.140	4100	1.578	34.681	27.770	33.7	4.053	4100	1.578	34.681	27.770	33.7	4.053
4200	1.582	34.683	27.772	33.6	4.187	4200	1.585	34.681	27.770	33.6	4.101	4200	1.585	34.681	27.770	33.6	4.101
4300	1.590	34.684	27.772	33.6	4.235	4300	1.592	34.682	27.770	33.7	4.148	4300	1.592	34.682	27.770	33.7	4.148
4400	1.597	34.683	27.771	33.7	4.282	4400	1.601	34.682	27.769	33.8	4.196	4400	1.601	34.682	27.769	33.8	4.196
4500	1.607	34.684	27.771	33.7	4.331	4500	1.610	34.682	27.76								

RV THOMAS WASHINGTON

INDOPAC LEG III

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LATITUDE		LONGITUDE		MO/DAT/YR		MESSENGER		TIME	POTOM	WIND	SPEED	WEATHER	DOMINANT WAVES			
24 20.0N		125 15.5E		6/ 7/76		0245 04T		GMT	1565M	210	17KT	1	210 5 5			
Z	T	S	Q2	P04	S103	N02	N03	DT	Z	T	S	Q2	S102	DT	DD	
0	27.35	34.647	4.67	0.10	2.0	0.00	0.3	548.5	0	27.35	34.647	4.67	22.362	548.5	0.000	
20	27.24	34.646	4.73	0.05	2.0	0.00	0.3	545.1	10	27.30	34.647	4.70	22.379	546.0	0.055	
40	26.30	34.654	4.75	0.02	2.0	0.00	0.3	516.1	20	27.24	34.646	4.73	22.396	545.1	0.109	
59	24.50	34.693	4.91	0.03	2.0	0.00	0.3	460.5	30	26.68	34.649	4.74	22.512	534.1	0.164	
79	23.17	34.717	4.70	0.08	2.0	0.04	0.3	421.4	50	25.38	34.672	4.64	23.000	487.4	0.266	
119	21.09	34.777	4.51		2.0	0.04	2.2	361.5	75	23.41	34.714	4.62	23.620	426.2	0.381	
138	20.73	34.792	4.43	0.24	3.0	0.06	2.6	351.1	100	21.92	34.750	4.63	24.071	385.2	0.464	
168	19.57	34.814	4.30	0.28	5.0	0.13	3.7	320.3	125	20.97	34.783	4.48	24.357	357.9	0.577	
207	18.76	34.819	4.30	0.24	5.0	0.01	4.5	300.2	150	20.28	34.801	4.40	24.555	339.1	0.666	
237	17.89	34.789	4.38	0.36	5.0	0.06	5.5	261.8	200	18.89	34.821	4.31	24.942	303.1	0.824	
287	16.95	34.758	4.44	0.40	7.0	0.01	6.3	262.5	250	17.62	34.762	4.40	25.217	276.1	0.978	
336	15.89	34.690	4.42	0.57	10.0	0.04	8.4	244.1	300	16.69	34.744	4.43	25.410	257.7	1.116	
396	14.29	34.572	4.13	0.83	14.0	0.00	12.0	219.2	400	14.17	34.564	4.11	25.853	217.5	1.364	
470	11.99	34.430	3.73	1.19	25.0	0.00	17.9	185.6	500	10.92	34.374	3.45	26.321	171.1	1.569	
543	9.47	34.318	3.01	1.79	43.0	0.04	25.5	151.4	600	8.07	34.310	2.53	26.743	131.1	1.731	
643	7.23	34.319	2.24	2.33	68.0	0.13	33.1	118.9	700	6.25	34.327	2.03	27.011	105.7	1.860	
741	5.67	34.334	1.93	2.56	89.0	0.00	37.7	98.2	800	5.00	34.347	1.75	27.179	89.7	1.967	
841	4.66	34.364	1.69	2.75	106.0	0.00	40.9	84.7	1000	3.99	34.500	1.98	27.411	67.6	2.142	
938	4.31	34.477	2.00	2.71	115.0	0.00	40.2	72.6	1200	3.13	34.521	1.97	27.512	58.1	2.286	
1086	3.55	34.504	1.95	2.73	126.0	0.00	41.6	63.2	1500	2.49	34.570	2.18	27.609	49.0	2.472	
1281	2.90	34.531	2.01	2.78	139.0	0.00	42.3	55.3								
1475	2.53	34.567	2.16	2.76	139.0	0.00	40.9	49.5								

RV THOMAS WASHINGTON

INDOPAC LEG III

44

LATITUDE		LONGITUDE		MO/DAT/YR		MESSENGER		TIME	POTOM	WIND	SPEED	WEATHER	DOMINANT WAVES			
22 28. N		126 32.2E		6/ 7/76		1739 2211		GMT	5913M	180	54T	1	150 5 3			
Z	T	S	Q2	P04	S103	N02	N03	DT	Z	T	S	Q2	S102	DT	DD	
0	27.89	34.697	4.71	0.05	2.0	0.00	0.0	561.6	0	27.89	34.697	4.71	22.224	561.6	0.000	
10	27.89	34.696	4.67	0.03	2.0	0.00	0.0	561.7	10	27.89	34.696	4.67	22.224	561.7	0.056	
26	27.12	34.753	4.75	0.00	2.0	0.00	0.0	533.8	20	27.56	34.752	4.72	22.359	548.7	0.112	
50	23.01	34.769	5.18	0.00	2.0	0.00	0.0	413.3	30	26.47	34.750	4.82	22.720	514.2	0.165	
76	21.45	34.769	5.16	0.01	2.0	0.00	0.0	371.4	50	23.01	34.769	5.18	23.176	413.3	0.258	
111	20.37	34.803	4.71	0.12	3.0	0.11	0.9	341.1	75	21.48	34.770	5.16	24.209	372.0	0.357	
151	19.46	34.827	4.44	0.21	4.0	0.08	2.3	316.7	100	20.63	34.792	4.67	24.455	344.6	0.448	
191	17.95	34.805	4.48	0.31	5.0	0.02	4.8	282.0	125	20.07	34.816	4.58	24.624	332.5	0.534	
250	16.86	34.759	4.65	0.31	5.0	0.01	4.8	260.4	150	19.48	34.827	4.44	24.784	317.3	0.616	
325	15.35	34.662	4.48	0.53	10.0	0.01	8.7	233.6	200	17.74	34.800	4.51	25.201	277.6	0.768	
399	13.36	34.504	4.20	0.84	16.0	0.01	13.0	205.9	250	16.66	34.759	4.65	25.381	260.4	0.906	
507	10.08	34.298	3.76	1.44	33.0	0.12	20.8	163.4	300	15.69	34.701	4.57	25.562	243.3	1.036	
617	6.69	34.174	2.59	2.22	65.0	0.00	31.7	122.6	400	13.33	34.502	4.20	25.960	205.5	1.270	
687	5.87	34.193	2.21	2.45	79.0	0.00	35.4	111.1	500	10.30	34.301	3.80	26.374	166.1	1.467	
797	5.13	34.333	1.80		95.0	0.03	37.8	92.1	600	7.13	34.181	2.77	26.777	127.9	1.624	
898	4.58	34.422	1.92	2.76	106.0	0.00	38.1	79.5	700	5.76	34.208	2.14	26.979	106.7	1.751	
998	3.94	34.433	1.72	2.82	120.0	0.00	39.9	72.2	800	5.11	34.354	1.80	27.159	91.7	1.860	
1021A	3.69	34.434	1.69	2.84	125.0	0.00	40.0	69.7	1000	3.92	34.434	1.72	27.367	72.0	2.042	
1119A	3.39	34.465	1.70	2.71	131.0	0.00	37.40	64.6	1200	3.19	34.495	1.83	27.486	60.6	2.192	
1217A	3.15	34.501	1.86	2.78	136.0	0.00	37.10	59.8	1500	2.54	34.582	2.20	27.599	50.0	2.384	
1315A	2.92	34.529	2.04	2.77	140.0	0.00	39.1	55.6	1750	2.23	34.594	2.49	27.652	44.9	2.524	
1511A	2.52	34.563	2.21	2.73	142.0	0.00	39.1	49.7	2000	1.99	34.627	2.74	27.695	40.9	2.653	
1707A	2.28	34.591	2.44	2.77	147.0	0.00	39.5	45.7	2250	1.84	34.642	2.93	27.719	36.5	2.774	
2001A	1.99	34.626	2.74	2.63	149.0	0.00	39.2	40.9	2500	1.74	34.653	3.06	27.735	35.0	2.892	
2295A	1.82	34.645	2.96	2.64	150.0	0.00	36.30	38.2	2750	1.66	34.661	3.21	27.748	35.8	3.007	
2590A	1.71	34.656	3.10	2.57	151.0	0.00	37.7	36.5	3000	1.60	34.667	3.32	27.757	35.0	3.120	
2891A	1.62	34.665	3.29	2.58	150.0	0.00	37.6	35.2	3250	1.57	34.671	3.36	27.762	34.5	3.233	
3180A	1.579	34.669	3.35	2.58	150.0	0.00	37.0	34.6	3500	1.55	34.674	3.42	27.766	34.1	3.347	
3476A	1.555	34.673	3.41	2.59	150.0		36.7	34.2	3750	1.53	34.678	3.50	27.769	33.8	3.461	
3771A	1.547	34.677	3.51	2.54	150.0		36.2	33.8	4000	1.56	34.679	3.51	27.770	33.8	3.576	
4066A	1.566	34.679	3.51	2.55	149.0		36.8	33.8	4250	1.57	34.682	3.53	27.771	33.6	3.694	
4363A	1.575	34.683	3.55	2.55	149.0	0.00	36.6	33.6	4500	1.60	34.684	3.55	27.771	33.6	3.813	
4660A	1.620	34.684	3.56	2.53	149.0	0.00	37.7	33.8	4750	1.63	34.684	3.57	27.768	33.9	3.935	
4955A	1.657	34.682	3.60	2.54	148.0	0.00	37.2	34.2	5000	1.66	34.683	3.60	27.765	34.2	4.061	
5253A	1.694	34.682	3.63	2.56	148.0	0.00	37.7	34.5	5250	1.69	34.683	3.63	27.763	34.5	4.190	
5551A	1.731		3.65	2.49	149.0	0.00	37.8		5500	1.72	34.682	3.65	27.760	34.7	4.322	
5848A	1.777	34.682	3.61	2.53	148.0	0.00	37.4	35.0	5750	1.76	34.683	3.63	27.757	34.9	4.457	

43						INDOPAC LEG 111						44					
LATITUDE		LONGITUDE		MO/DAY/YR		START TIME		LATITUDE		LONGITUDE		MO/DAY/YR		START TIME			
24 20.0N		125 15.5E		06/09/76		0151 GMT		22 28. N		126 32.2E		06/09/76		1526 GMT			
Z	T	S	SIGMA T	DT	DD			Z	T	S	SIGMA T	DT	DD				
0	27.30	34.66	22.388	546.0	0.000			0	28.05	34.67	22.152	568.5	0.000				
10	27.28	34.67	22.402	544.6	0.055			10	28.04	34.70	22.178	566.1	0.057				
20	27.09	34.66	22.455	539.5	0.109			20	27.67	34.72	22.313	553.1	0.113				
30	26.44	34.66	22.661	519.8	0.162			30	26.56	34.73	22.676	518.4	0.166				
40	25.68	34.67	22.905	496.5	0.213			40	25.60	34.72	22.968	490.5	0.217				
50	24.70	34.70	23.227	465.6	0.261			50	24.06	34.67	23.395	449.7	0.264				
75	23.47	34.72	23.606	429.5	0.374			75	21.87	34.75	24.085	383.9	0.369				
100	22.28	34.75	23.970	394.8	0.478			100	21.03	34.77	24.331	360.4	0.463				
125	20.96	34.79	24.365	357.2	0.575			125	20.40	34.83	24.546	339.9	0.551				
150	20.30	34.80	24.550	339.6	0.661			150	19.64	34.79	24.715	323.6	0.636				
175	19.48	34.82	24.780	317.7	0.744			175	18.98	34.82	24.908	305.5	0.716				
200	18.97	34.83	24.918	304.5	0.824			200	18.43	34.82	25.047	292.3	0.792				
225	18.18	34.80	25.094	287.8	0.900			225	17.73	34.79	25.196	278.0	0.865				
250	17.60	34.79	25.228	275.0	0.972			250	17.20	34.77	25.309	267.3	0.935				
275	16.98	34.76	25.354	263.0	1.041			275	16.56	34.74	25.437	255.1	1.002				
300	16.47	34.73	25.451	253.8	1.108			300	16.14	34.72	25.519	247.3	1.067				
350	15.42	34.65	25.628	236.9	1.236			350	15.24	34.65	25.668	233.1	1.192				
400	14.29	34.57	25.813	219.4	1.355			400	13.51	34.50	25.822	209.1	1.308				
450	12.81	34.46	26.032	198.6	1.465			450	11.74	34.38	26.177	184.8	1.412				
500	10.71	34.35	26.342	169.2	1.563			500	9.49	34.26	26.410	162.7	1.504				
550	9.15	34.32	26.583	146.3	1.647			550	8.82	34.21	26.549	149.5	1.587				
600	7.93	34.30	26.756	129.9	1.722			600	7.76	34.19	26.692	135.9	1.664				
650	7.19	34.32	26.878	118.2	1.789			650	6.84	34.17	26.805	124.6	1.734				
700	6.43	34.31	26.974	109.2	1.851			700	6.08	34.17	26.909	115.3	1.799				
750	5.48	34.33	27.110	96.3	1.907			750	5.44	34.22	27.023	104.5	1.858				
800	4.98	34.38	27.193	88.5	1.958			800	5.14	34.29	27.119	95.5	1.913				
850	4.82	34.41	27.251	83.0	2.005			850	5.10	34.36	27.179	89.8	1.964				
900	4.73	34.46	27.300	78.3	2.050			900	4.78	34.39	27.239	84.0	2.012				
950	4.18	34.46	27.360	72.6	2.092			950	4.37	34.40	27.292	79.0	2.058				
1000	3.79	34.47	27.409	68.0	2.132			1000	3.92	34.42	27.356	73.0	2.100				
1100	3.51	34.50	27.460	63.1	2.206			1100	3.42	34.45	27.429	66.0	2.178				
1200	3.11	34.52	27.514	58.0	2.275			1200	3.17	34.50	27.493	60.0	2.250				
1300	2.86	34.54	27.553	54.3	2.340			1300	2.94	34.53	27.539	55.7	2.316				
1400	2.60	34.56	27.592	50.6	2.401			1400	2.70	34.54	27.567	53.0	2.379				
1500	2.50	34.57	27.608	49.1	2.459			1500	2.51	34.56	27.600	49.9	2.439				
								1600	2.350	34.579	27.625	47.5	2.496				
								1700	2.202	34.594	27.646	45.5	2.551				
								1800	2.199	34.612	27.667	43.5	2.605				
								1900	2.121	34.620	27.680	42.3	2.656				
								2000	2.011	34.626	27.693	41.0	2.707				
								2100	1.924	34.636	27.708	39.6	2.756				
								2200	1.862	34.642	27.719	38.7	2.804				
								2300	1.824	34.645	27.723	38.2	2.852				
								2400	1.790	34.649	27.729	37.6	2.899				
								2500	1.744	34.651	27.734	37.2	2.946				
								2600	1.710	34.653	27.738	36.8	2.992				
								2700	1.682	34.657	27.743	36.3	3.039				
								2800	1.660	34.659	27.747	36.0	3.085				
								2900	1.636	34.662	27.751	35.6	3.130				
								3000	1.616	34.665	27.755	35.2	3.176				
								3100	1.602	34.667	27.757	35.0	3.221				
								3200	1.590	34.669	27.760	34.7	3.267				
								3300	1.582	34.671	27.762	34.5	3.312				
								3400	1.571	34.673	27.764	34.3	3.358				
								3500	1.568	34.675	27.766	34.1	3.403				
								3600	1.565	34.675	27.766	34.1	3.449				
								3700	1.566	34.676	27.767	34.0	3.495				
								3800	1.564	34.677	27.766	33.9	3.541				
								3900	1.566	34.679	27.770	33.8	3.587				
								4000	1.569	34.680	27.770	33.7	3.634				
								4100	1.574	34.681	27.771	33.7	3.681				
								4200	1.580	34.682	27.771	33.7	3.728				
								4300	1.586	34.682	27.771	33.7	3.775				
								4400	1.595	34.682	27.770	33.6	3.823				
								4500	1.604	34.683	27.770	33.7	3.871				
								4600	1.614	34.683	27.769	33.8	3.920				
								4700	1.624	34.682	27.768	34.0	3.969				
								4800	1.636	34.684	27.768	33.4	4.019				
								4900	1.647	34.684	27.768	34.0	4.069				
								5000	1.659	34.683	27.766	34.1	4.119				
								5100	1.672	34.684	27.766	34.2	4.170				
								5200	1.685	34.683	27.764	34.3	4.222				
								5300	1.697	34.683	27.763	34.4	4.274				
								5400	1.709	34.683	27.762	34.5	4.326				
								5500	1.720	34.683	27.761	34.6	4.379				
								5600	1.732	34.683	27.761	34.7	4.433				
								5700	1.746	34.683	27.759	34.7	4.487				
								5800	1.760	34.683	27.758	34.9	4.541				
								5900	1.774	34.683	27.757	35.0	4.597				

RV THOMAS WASHINGTON										INDOFAC LEG III									
LATITUDE		LONGITUDE		MO/DAY/YR		MESSENGER		TIME		BOTTOM		WIND		SPEED		WEATHER		DOMINANT WAVES	
22 26.2N		129 34.3E		6/10/76		1532 1909		GMT		6231M		180		10KT		6			
Z	T	S	02	P04	SIG3	002	003	DT	Z	T	S	02	SIGT	DT	00				
0	28.73	34.528	4.53	0.08	2.	0.00	0.1	600.2	0	28.73	34.528	4.53	21.021	600.2	0.000				
10	28.74	34.529	4.58	0.05	2.	0.00	0.1	600.5	10	28.74	34.529	4.58	21.018	600.5	0.000				
26	28.47	34.551	4.57	0.05	2.	0.00	0.1	596.3	20	28.63	34.579	4.50	21.062	596.3	0.110				
51	26.71	34.669	4.72	0.05	2.	0.00	0.1	527.3	30	26.23	34.570	4.59	22.021	527.3	0.179				
76	25.70	34.684	4.79	0.04	2.	0.00	0.1	496.0	50	26.79	34.665	4.71	22.054	530.1	0.290				
112	24.04	34.872	4.42	0.11	2.	0.04	0.1	434.5	75	25.73	34.684	4.79	22.099	497.1	0.419				
152	22.11	34.788	4.53	0.10	2.	0.13	0.9	387.5	100	24.61	34.812	4.55	23.030	455.1	0.539				
192	20.62	34.773	4.66	0.10	2.	0.07	1.7	349.7	125	23.39	34.656	4.46	23.732	417.5	0.649				
252	19.18	34.841	4.36	0.23	4.	0.01	3.9	308.8	150	22.20	34.793	4.52	24.026	389.5	0.752				
327	17.16	34.778	4.54	0.33	5.	0.00	5.7	265.8	200	20.41	34.783	4.63	24.000	349.5	0.938				
403	15.31	34.657	4.41	0.55	10.	0.00	9.1	234.1	250	19.22	34.839	4.37	24.861	309.1	1.105				
512	11.66	34.377	3.66	1.25	22.	0.00	18.5	183.6	300	17.69	34.812	4.46	25.174	260.1	1.257				
622	8.25	34.188	3.09	1.90	45.	0.00	27.3	142.7	400	15.39	34.664	4.42	25.046	235.3	1.526				
692	6.73	34.188	2.38	2.30	64.	0.00	33.0	123.4	500	12.08	34.407	3.75	26.132	189.1	1.750				
751	5.79	34.197	1.91	2.63	78.	0.03	35.5	109.9	600	8.67	34.214	3.22	26.344	150.0	1.932				
802	5.37	34.214	1.77	2.66	87.	0.00	38.2	103.7	700	6.58	34.175	2.30	26.047	121.4	2.076				
894A	4.73	34.345	1.49	2.84	102.	0.00	40.1	86.9	800	5.38	34.214	1.77	27.030	104.8	2.200				
993A	4.20	34.412	1.53	2.74	112.	0.00	40.4	76.4	1000	4.17	34.416	1.54	27.326	78.8	2.399				
1193A	3.46	34.491	1.74	2.76	128.	0.00	41.0	63.3	1200	3.44	34.494	1.75	27.462	62.9	2.556				
1494A	2.62	34.556	2.10	2.73	140.	0.00	39.9	51.1	1500	2.61	34.558	2.11	27.389	50.9	2.766				
1793A	2.24	34.595	2.43	2.69	145.	0.00	39.9	45.1	1750	2.28	34.592	2.29	27.844	45.7	2.897				
2093A	1.94	34.628	2.69	2.72	148.	0.00	39.4	40.3	2000	2.02	34.620	2.61	27.887	38.9	3.029				
2393A	1.79	34.646	2.94	2.65	148.	0.00	38.7	37.9	2250	1.85	34.637	2.63	27.714	36.9	3.151				
2693A	1.69	34.658	3.07	2.61	148.	0.01	38.4	36.1	2500	1.75	34.651	2.69	27.733	37.2	3.270				
2992A	1.63	34.664	3.27	2.58	148.	0.01	38.5	35.4	2750	1.68	34.660	3.11	27.745	36.1	3.388				
3291A	1.574	34.674	3.42	2.56	147.	0.01	37.9	34.2	3000	1.63	34.665	3.27	27.753	35.3	3.500				
3592A	1.566	34.678	3.50	2.54	148.	0.00	37.5	33.8	3250	1.58	34.673	3.40	27.763	34.4	3.614				
3892A	1.558	34.681	3.51	2.53	147.	0.00	37.5	33.6	3500	1.57	34.674	3.48	27.768	33.9	3.727				
4191A	1.573	34.683	3.51	2.51	147.	0.00	37.4	33.8	3750	1.56	34.680	3.51	27.770	33.7	3.841				
4493A	1.596	34.687	3.55	2.54	147.	0.00	37.3	33.4	4000	1.56	34.682	3.51	27.772	33.6	3.956				
4792A	1.631	34.686	3.60	2.53	147.	0.00	37.4	33.7	4250	1.58	34.685	3.52	27.773	33.5	4.073				
5092A	1.664	34.687	3.62	2.53	146.	0.00	37.4	33.9	4500	1.60	34.688	3.55	27.774	33.4	4.192				
5391A	1.701	34.687	3.63	2.44	146.	0.00	37.4	34.1	4750	1.63	34.687	3.59	27.771	33.7	4.314				
5690A	1.736	34.687	3.63	2.46	146.	0.00	37.5	34.4	5000	1.65	34.687	3.62	27.769	33.8	4.439				
5989A	1.778	34.687	3.67	2.43	146.	0.00	37.5	34.7	5250	1.68	34.688	3.63	27.767	34.0	4.566				

RV THOMAS WASHINGTON										INDOFAC LEG III									
LATITUDE		LONGITUDE		MO/DAY/YR		MESSENGER		TIME		BOTTOM		WIND		SPEED		WEATHER		DOMINANT WAVES	
19 19.8N		131 05.5E		6/11/76		1749 2150		GMT		5993M		120		KTS		1		170 5 5	
Z	T	S	02	P04	SIG3	002	003	DT	Z	T	S	02	SIGT	DT	00				
0	28.57	34.549	4.58	0.08	2.	0.00	0.1	593.6	0	28.57	34.549	4.58	21.890	593.6	0.08				
15	28.56	34.547	4.60	0.09	2.	0.00	0.1	593.4	10	28.57	34.549	4.60	21.891	593.5	0.089				
26	28.54	34.546	4.59	0.07	2.	0.00	0.1	592.9	20	28.55	34.547	4.59	21.895	593.2	0.119				
51	27.37	34.577	4.77	0.09	2.	0.00	0.2	554.1	30	28.39	34.546	4.61	21.946	554.1	0.178				
76	26.56	34.650	4.78	0.09	2.	0.00	0.2	524.2	50	27.43	34.576	4.76	22.042	524.2	0.243				
114	24.96	34.840	4.34	0.15	2.	0.13	0.5	463.2	75	26.65	34.641	4.78	22.081	463.2	0.429				
149	23.11	34.900	4.30	0.14	2.	0.05	0.8	406.6	100	25.64	34.747	4.52	22.092	406.6	0.567				
184	21.79	34.937	4.35	0.15	2.	0.11	0.8	368.2	125	24.37	34.860	4.33	23.452	368.2	0.674				
214	20.86	34.972	4.15	0.20	3.	0.05	1.6	341.4	150	23.07	34.960	4.30	23.360	341.4	0.782				
274	18.01	34.828	4.17	0.34	5.	0.05	3.3	281.3	200	21.30	34.961	4.25	24.401	281.3	0.975				
354	15.73	34.681	4.15	0.50	8.	0.03	6.2	241.3	250	19.17	34.895	4.16	24.917	241.3	1.143				
432	12.20	34.409	3.89	1.11	20.	0.00	15.3	191.0	300	17.20	34.786	4.16	25.320	241.3	1.291				
450	8.95	34.238	2.95	1.85	40.	0.00	25.4	149.3	400	14.11	34.550	4.09	25.036	217.2	1.543				
651	6.93	34.250	1.98	2.43	63.	0.00	34.5	120.0	500	10.51	34.305	3.47	26.541	149.3	1.747				
672A	6.83	34.250	1.91	2.41	63.	0.00	27.80	116.7	600	7.71	34.236	2.40	26.733	131.6	1.908				
750	5.67	34.305	1.59	2.71	83.	0.06	37.6	100.4	700	6.46	34.265	1.79	26.935	113.0	2.040				
853	4.94	34.375	1.54	2.80	96.	0.00	38.8	86.4	800	5.26	34.338	1.57	27.143	93.2	2.153				
872A	4.81	34.392	1.56	2.71	99.	0.00	37.7	84.2	1000	4.08	34.470	1.75	27.379	70.5	2.335				
1071A	3.76	34.498	1.86	2.75	119.	0.00	36.7	65.6	1200	3.32	34.549	2.00	27.510	59.3	2.483				
1269A	3.14	34.555	2.28	2.80	137.	0.00	38.2	49.4	1500	2.72	34.587	2.27	27.602	49.7	2.672				
1517A	2.70	34.587	2.28	2.80	137.	0.00	38.2	49.4	1750	2.37	34.606	2.49	27.648	45.4	2.814				
1765A	2.35	34.606	2.50	2.72	145.	0.00	38.4	45.1	2000	2.10	34.627	2.65	27.666	41.6	2.946				
2062A	2.05	34.632	2.69	2.65	148.	0.00	38.4	40.9	2250	1.91	34.641	2.79	27.713	39.0	3.070				
2357A	1.85	34.647	2.85	2.63	151.	0.00	37.2	38.2	2500	1.74	34.651	2.97	27.730	37.4	3.190				
2652A	1.74	34.656	3.09	2.64	152.	0.00	38.3	36.8	2750	1.71	34.660	3.11	27.743	36.3	3.307				
2948A	1.672	34.666	3.15	2.63	152.	0.00	37.1	35.5	3000	1.66	34.666	3.18	27.753	35.3	3.422				
3144A	1.645	34.671	3.28	2.48	151.	0.00	36.5	35.0	3250	1.63	34.672	3.31	27.759	34.8	3.537				
3439A	1.607	34.673	3.35	2.37	149.	0.00	35.5	34.5	3500	1.60	34.674	3.36	27.763	34.4	3.652				
4030A	1.577	34.680	3.48	2.55	148.	0.00	35.5	33.8	3750	1.59	34.677	3.42	27.766	34.1	3.768				
4326A	1.586	34.685	3.57	2.41	146.	0.00	36.1	33.6	4000	1.58	34.680	3.47	27.769	33.8	3.885				
4623A	1.618	34.684	3.57	2.32	146.	0.00	35.4	33.6	4250	1.58	34.684	3.55	27.772	33.5	4.002				
4920A	1.644	34.685	3.57	2.45	146.	0.00	36.1	33.3	4500	1.60	34.688	3.57	27.771	33.6	4.124				
5219A	1.676	34.686	3.64	2.51	145.	0.00	36.1	34.0	4750	1.63	34.688	3.57	27.769	33.8	4.244				
5518A	1.712	34.688	3.64	2.50	145.	0.00	34.8	34.8	5000	1.65	34.687	3.59	27.768	33.9	4.369				
5817A	1.756	34.686	3.62	2.40	144.	0.00	35.4	34.6	5250	1.68	34.687	3.64	27.767	34.0	4.497				
									5500	1.71	34.689	3.64	27.766	34.1	4.627				
									5750	1.75	34.687	3.63	27.762	34.5	4.767				

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INCOPAC LEG III

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LATITUDE		LONGITUDE		MO/DAY/YR		START TIME		LATITUDE		LONGITUDE		MO/DAY/YR		START TIME			
22 46.2N		129 34.3E		06/10/76		1529 GMT		19 19.8N		131 05.5E		06/11/76		1535 GMT			
Z	T	S	SIGMA	T	DD	Z	T	S	SIGMA	T	DD	Z	T	S	DD		
0	28.76	34.56	21.835	598.9	0.000	0	28.60	34.57	21.896	593.1	0.000	0	28.60	34.56	21.888	593.8	0.059
10	28.76	34.57	21.843	598.1	0.060	10	28.60	34.56	21.888	594.1	0.119	20	28.61	34.56	21.885	594.1	0.119
20	28.75	34.57	21.846	597.8	0.120	20	28.61	34.56	21.885	594.1	0.178	30	28.54	34.55	21.901	592.6	0.178
30	28.57	34.57	21.906	592.1	0.179	30	28.54	34.55	21.901	592.6	0.237	40	28.14	34.58	22.055	577.8	0.237
40	27.71	34.63	22.233	560.8	0.237	40	28.14	34.58	22.055	577.8	0.294	50	27.92	34.60	22.142	569.2	0.294
50	27.25	34.67	22.411	543.7	0.293	50	27.92	34.60	22.142	569.2	0.351	75	26.48	34.68	22.664	519.6	0.351
75	26.13	34.68	22.773	509.1	0.425	75	26.48	34.68	22.664	519.6	0.558	100	25.71	34.76	22.964	490.9	0.558
100	24.63	34.76	23.293	459.4	0.547	100	25.71	34.76	22.964	490.9	0.677	125	24.54	34.67	23.403	448.9	0.677
125	23.69	34.82	23.618	428.5	0.659	125	24.54	34.67	23.403	448.9	0.787	150	23.51	34.69	23.723	418.4	0.787
150	22.24	34.79	24.011	390.9	0.762	150	23.51	34.69	23.723	418.4	0.890	175	22.66	34.94	24.006	391.4	0.890
175	21.35	34.77	24.243	368.8	0.859	175	22.66	34.94	24.006	391.4	0.985	200	21.53	34.98	24.353	358.3	0.985
200	20.58	34.79	24.467	347.4	0.950	200	21.53	34.98	24.353	358.3	1.073	225	20.57	34.93	24.630	331.9	1.073
225	20.04	34.79	24.611	333.8	1.037	225	20.57	34.93	24.630	331.9	1.154	250	19.05	34.89	24.943	302.1	1.154
250	18.91	34.84	24.941	302.3	1.119	250	19.05	34.89	24.943	302.1	1.230	275	17.96	34.81	25.155	281.9	1.230
275	17.68	34.79	25.209	276.8	1.193	275	17.96	34.81	25.155	281.9	1.301	300	17.23	34.78	25.309	267.2	1.301
300	17.09	34.77	25.335	264.8	1.263	300	17.23	34.78	25.309	267.2	1.431	350	15.32	34.65	25.651	234.6	1.431
350	16.01	34.71	25.541	245.2	1.396	350	15.32	34.65	25.651	234.6	1.548	400	13.68	34.52	25.902	210.9	1.548
400	14.63	34.60	25.763	224.1	1.519	400	13.68	34.52	25.902	210.9	1.653	450	11.77	34.37	26.163	186.1	1.653
450	12.94	34.46	26.006	201.0	1.631	450	11.77	34.37	26.163	186.1	1.746	500	10.30	34.28	26.359	167.5	1.746
500	11.28	34.34	26.231	179.7	1.732	500	10.30	34.28	26.359	167.5	1.831	550	8.76	34.22	26.564	148.1	1.831
550	9.91	34.25	26.402	163.4	1.823	550	8.76	34.22	26.564	148.1	1.906	600	7.78	34.24	26.731	132.2	1.906
600	8.73	34.21	26.564	148.1	1.907	600	7.78	34.24	26.731	132.2	1.974	650	6.91	34.25	26.862	119.8	1.974
650	7.64	34.18	26.705	134.8	1.983	650	6.91	34.25	26.862	119.8	2.036	700	6.38	34.29	26.965	110.1	2.036
700	6.66	34.17	26.833	122.5	2.052	700	6.38	34.29	26.965	110.1	2.094	750	5.69	34.30	27.061	101.0	2.094
750	5.80	34.19	26.960	110.5	2.116	750	5.69	34.30	27.061	101.0	2.147	800	5.20	34.34	27.151	92.4	2.147
800	5.17	34.24	27.076	99.6	2.173	800	5.20	34.34	27.151	92.4	2.196	850	4.68	34.38	27.220	85.9	2.196
850	4.90	34.29	27.146	92.6	2.225	850	4.68	34.38	27.220	85.9	2.242	900	4.59	34.41	27.276	80.5	2.242
900	4.71	34.35	27.215	86.3	2.275	900	4.59	34.41	27.276	80.5	2.286	950	4.34	34.45	27.335	74.9	2.286
950	4.43	34.38	27.270	81.1	2.322	950	4.34	34.45	27.335	74.9	2.327	1000	4.13	34.46	27.366	72.1	2.327
1000	4.19	34.41	27.320	76.4	2.366	1000	4.13	34.46	27.366	72.1	2.405	1100	3.69	34.50	27.442	64.8	2.405
1100	3.73	34.46	27.407	68.2	2.447	1100	3.69	34.50	27.442	64.8	2.476	1200	3.34	34.53	27.501	59.3	2.476
1200	3.40	34.49	27.463	62.8	2.522	1200	3.34	34.53	27.501	59.3	2.542	1300	3.10	34.55	27.539	55.6	2.542
1300	3.11	34.51	27.506	58.7	2.592	1300	3.10	34.55	27.539	55.6	2.605	1400	2.88	34.57	27.575	52.2	2.605
1400	2.77	34.54	27.561	53.5	2.657	1400	2.88	34.57	27.575	52.2	2.666	1500	2.75	34.58	27.595	50.4	2.666
1500	2.61	34.56	27.591	50.7	2.718	1500	2.75	34.58	27.595	50.4	2.725	1600	2.596	34.594	27.619	48.0	2.725
1600	2.461	34.568	27.610	48.9	2.776	1600	2.596	34.594	27.619	48.0	2.781	1700	2.466	34.599	27.634	46.6	2.781
1700	2.344	34.583	27.632	46.8	2.833	1700	2.466	34.599	27.634	46.6	2.836	1800	2.362	34.610	27.652	44.9	2.836
1800	2.196	34.603	27.660	44.2	2.887	1800	2.362	34.610	27.652	44.9	2.890	1900	2.237	34.620	27.670	43.2	2.890
1900	2.125	34.614	27.675	42.8	2.940	1900	2.237	34.620	27.670	43.2	2.942	2000	2.136	34.627	27.684	41.9	2.942
2000	2.016	34.625	27.692	41.1	2.991	2000	2.136	34.627	27.684	41.9	2.993	2100	2.051	34.634	27.697	40.7	2.993
2100	1.933	34.629	27.702	40.2	3.040	2100	2.051	34.634	27.697	40.7	3.043	2200	1.978	34.639	27.706	39.8	3.043
2200	1.875	34.635	27.711	39.3	3.089	2200	1.978	34.639	27.706	39.8	3.091	2300	1.909	34.645	27.716	38.8	3.091
2300	1.820	34.641	27.720	38.5	3.137	2300	1.909	34.645	27.716	38.8	3.140	2400	1.863	34.649	27.723	38.2	3.140
2400	1.772	34.648	27.729	37.6	3.184	2400	1.863	34.649	27.723	38.2	3.187	2500	1.817	34.652	27.729	37.6	3.187
2500	1.738	34.653	27.736	37.0	3.231	2500	1.817	34.652	27.729	37.6	3.235	2600	1.774	34.655	27.735	37.1	3.235
2600	1.710	34.655	27.740	36.6	3.277	2600	1.774	34.655	27.735	37.1	3.282	2700	1.740	34.657	27.739	36.7	3.282
2700	1.694	34.658	27.743	36.3	3.323	2700	1.740	34.657	27.739	36.7	3.328	2800	1.717	34.659	27.742	36.4	3.328
2800	1.674	34.661	27.747	35.9	3.369	2800	1.717	34.659	27.742	36.4	3.375	2900	1.699	34.660	27.745	36.2	3.375
2900	1.654	34.664	27.751	35.5	3.415	2900	1.699	34.660	27.745	36.2	3.422	3000	1.672	34.663	27.749	35.7	3.422
3000	1.630	34.667	27.755	35.1	3.461	3000	1.672	34.663	27.749	35.7	3.468	3100	1.656	34.665	27.752	35.5	3.468
3100	1.606	34.671	27.760	34.7	3.506	3100	1.656	34.665	27.752	35.5	3.514	3200	1.649	34.667	27.754	35.3	3.514
3200	1.588	34.673	27.763	34.4	3.551	3200	1.649	34.667	27.754	35.3	3.561	3300	1.631	34.669	27.757	35.0	3.561
3300	1.579	34.674	27.765	34.3	3.597	3300	1.631	34.669	27.757	35.0	3.607	3400	1.622	34.671	27.759	34.8	3.607
3400	1.573	34.675	27.766	34.1	3.642	3400	1.622	34.671	27.759	34.8	3.654	3500	1.615	34.673	27.761	34.6	3.654
3500	1.571	34.677	27.768	34.0	3.687	3500	1.615	34.673	27.761	34.6	3.700	3600	1.605	34.674	27.763	34.4	3.700
3600	1.567	34.678	27.769	33.9	3.733	3600	1.605	34.674	27.763	34.4	3.747	3700	1.596	34.676	27.765	34.2	3.747
3700	1.564	34.679	27.770	33.8	3.779	3700	1.596	34.676	27.765	34.2	3.793	3800	1.593	34.677	27.766	34.1	3.793
3800	1.566	34.681	27.771	33.6	3.824	3800	1.593	34.677	27.766	34.1	3.840	3900	1.589	34.679	27.768	34.0	3.840
3900	1.567	34.681	27.771	33.6	3.871	3900	1.589	34.679	27.768	34.0	3.887	4000	1.588	34.680	27.769	33.9	3.887
4000	1.568	34.682	27.772	33.6	3.917	4000	1.588	34.680	27.769	33.9	3.934	4100	1.588	34.681	27.770	33.6	3.934
4100	1.573	34.683	27.772	33.5	3.964	4100	1.588	34.681	27.770	33.6	3.981	4200	1.569	34.682	27.770	33.7	3.981
4200	1.578	34.683	27.772	33.6	4.011	4200	1.569	34.682	27.770	33.7	4.029	4300	1.595	34.683	27.771	33.7	4.029
4300	1.584	34.684	27.772	33.5	4.058	4300	1.595	34.683	27.771	33.7	4.077	4400	1.603	34.683	27.770	33.7	4.077
4400	1.592	34.684	27.772	33.6	4.106	4400	1.603	34.683	27.770	33.7	4.125	4500	1.607	34.684	27.771	33.7	4.125
4500	1.599	34.685	27.772	33.6	4.154	4500	1.607	34.684	27.771	33.7	4.173	4600	1.616	34.685	27.771	33.7	4.173
4600	1.608	34.685	27.771	33.6	4.202	4600	1.616	34.685	27.771	33.7	4.222	4700	1.623	34.685	27.770	33.7	4.222
4700	1.619	34.685	27.770	33.7	4.251	4700	1.623	34.685	27.770	33.7							

RV THOMAS WASHINGTON

INDOPAC LEG III

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LATITUDE		LONGITUDE		MO/DAY/YR		MESSENGER		TIME		BOTTOM		WIND		SPEED		WEATHER		DUM/DAT		WAVES	
20 55. N		131 56.5 E		6/12/76		0844 1243		GMT		5478M		140		KNT		1		140		S F	
Z	T	S	Q2	P04	SIG3	N02	N03	DT	Z	T	S	Q2	SIG1	DT	LO						
0	28.96	34.658	4.56	0.07	2.	0.00	0.2	598.2	0	28.96	34.658	4.56	21.842	598.2	0.000						
10	28.95	34.658	4.58	0.07	2.	0.00	0.1	597.4	10	28.95	34.658	4.58	21.845	597.9	0.060						
31	28.68	34.658	4.55	0.06	2.	0.00	0.0	589.5	20	28.68	34.658	4.57	21.868	595.7	0.119						
50	27.91	34.671	4.74	0.05	2.	0.00	0.0	564.1	30	26.70	34.670	4.55	21.927	596.0	0.179						
91	26.17	34.738	4.80	0.06	2.	0.00	0.0	506.1	50	27.91	34.671	4.74	22.198	594.1	0.294						
131	24.86	34.835	4.56	0.10	2.	0.00	0.3	466.1	75	26.83	34.737	4.76	22.372	526.3	0.432						
191	22.32	34.882	4.48	0.11	2.	0.04	0.6	386.1	100	25.27	34.766	4.75	22.715	495.6	0.561						
250	19.87	34.933	4.25	0.26	4.	0.01	2.9	319.1	125	25.07	34.820	4.60	23.210	467.3	0.682						
325	16.70	34.744	4.41	0.41	7.	0.00	5.8	257.9	150	24.07	34.853	4.62	23.525	437.3	0.796						
423	13.22	34.483	4.17	0.87	16.	0.00	12.9	204.7	200	21.95	34.895	4.44	24.174	375.4	1.003						
521	9.99	34.281	3.30	1.60	32.	0.00	23.4	162.4	250	19.67	34.933	4.25	24.764	319.1	1.161						
566	8.66	34.239	2.67	2.01	43.	0.00	28.8	144.9	300	17.74	34.821	4.34	25.214	275.8	1.334						
615	7.48	34.216	2.25	2.31	54.	0.00	32.9	129.9	400	15.99	34.544	4.24	25.856	215.3	1.540						
694	6.49	34.263	1.77	2.58	68.	0.00	37.3	115.4	500	10.65	34.316	3.55	26.325	176.8	1.794						
720A	6.29	34.268	1.70	2.55	73.	0.00	37.3	110.6	600	7.80	34.220	2.36	26.711	136.1	1.957						
793	5.63	34.331	1.26	2.76	81.	0.00	40.0	94.0	700	6.44	34.267	1.75	26.736	112.8	2.090						
821A	5.38	34.344	1.51	2.75	90.	0.00	40.2	94.1	800	5.57	34.335	1.55	27.103	97.0	2.285						
893	4.85	34.389	1.55	2.63	96.	0.00	41.2	84.9	1000	4.31	34.431	1.59	27.323	76.2	2.398						
920A	4.72	34.400	1.55	2.61	103.	0.00	41.0	82.7	1200	3.45	34.495	1.80	27.462	66.9	2.556						
1120A	3.74	34.473	1.70	2.83	124.	0.00	41.7	67.3	1500	2.71	34.572	2.16	27.590	50.6	2.755						
1421A	2.85								1750	2.38	34.606	2.45	27.646	41.5	2.898						
1721A	2.42	34.601	2.43	2.77	146.	0.00	40.5	46.1	2000	2.10	34.627	2.60	27.686	41.7	3.031						
2021A	2.08	34.627	2.61	2.73	151.	0.04	40.2	41.5	2250	1.91	34.641	2.77	27.712	39.1	3.155						
2320A	1.87	34.645	2.82	2.66	152.	0.00	39.7	38.5	2500	1.80	34.650	2.69	27.729	37.5	3.275						
2622A	1.76	34.654	2.93	2.67	154.	0.00	39.2	37.1	2750	1.73	34.658	3.02	27.740	36.6	3.392						
2920A	1.69	34.661	3.13	2.66	153.	0.00	38.8	36.0	3000	1.67	34.664	3.17	27.749	35.8	3.509						
3221A	1.634	34.668	3.27	2.60	152.	0.00	38.2	35.1	3250	1.63	34.669	3.28	27.756	35.0	3.625						
3522A	1.602	34.673	3.38	2.50	151.	0.00	37.9	34.5	3500	1.60	34.673	3.37	27.762	34.5	3.740						
3820A	1.585	34.676	3.44	2.57	151.	0.00	37.6	34.1	3750	1.59	34.676	3.43	27.765	34.2	3.856						
4122A	1.593	34.680	3.47	2.51	151.	0.00	37.2	33.9	4000	1.59	34.679	3.46	27.767	34.0	3.973						
4421A	1.604	34.682	3.54	2.56	149.	0.00	37.0	33.5	4250	1.60	34.682	3.50	27.769	33.8	4.092						
4721A	1.625	34.683	3.56	2.54	149.	0.00	36.7	33.9	4500	1.61	34.683	3.55	27.769	33.8	4.212						
5021A	1.652	34.684	3.57	2.54	149.	0.00	36.5	34.0	4750	1.63	34.684	3.56	27.768	33.9	4.335						
5321A	1.684	34.685	3.61	2.54	149.	0.00	36.4	34.2	5000	1.65	34.685	3.67	27.767	34.0	4.460						
5621A	1.721	34.686	3.61	2.48	149.	0.00	36.4	34.3	5250	1.68	34.685	3.60	27.766	34.1	4.588						
5922A	1.762	34.686	3.67	2.54	149.	0.00	36.1	34.6	5500	1.71	34.686	3.61	27.764	34.3	4.718						

RV THOMAS WASHINGTON

INDOPAC LEG III

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	LATITUDE		LONGITUDE		MO/DAY/YR		MESSENGER		TIME		BOTTOM		WIND		SPEED		WEATHER		DUM/DAT		WAVES	
	22 30.5N		132 27. E		6/12/76		2340 0333		GMT		5592M		160		KNT		1		160		4 5	
Z	T	S	Q2	P04	SIG3	N02	N03	DT	Z	T	S	Q2	SIG1	DT	LO							
0	28.18	34.861	4.69	0.00	3.	0.00	0.0	558.9	0	28.18	34.861	4.69	22.253	558.9	0.000							
20	27.43	34.855	4.74	0.00	3.	0.00	0.0	536.7	10	27.61	34.857	4.72	22.372	547.4	0.055							
36	23.32	34.784	5.30	0.00	2.	0.00	0.0	420.7	20	27.43	34.855	4.74	22.492	536.0	0.110							
55	22.05	34.787	5.41	0.00	3.	0.00	0.0	386.0	30	24.88	34.792	5.09	23.241	484.4	0.160							
86	20.90	34.814	5.07	0.02	2.	0.00	0.0	353.9	50	22.17	34.784	5.38	24.029	389.2	0.245							
116	20.02	34.815	4.79	0.07	3.	0.39	0.9	331.4	75	21.23	34.805	5.22	24.304	362.0	0.340							
151	18.73	34.799	4.63	0.16	5.	0.04	3.5	300.9	100	20.49	34.817	4.93	24.513	343.1	0.429							
186	17.64	34.783	4.59	0.29	5.	0.03	4.6	276.4	125	19.69	34.811	4.73	24.718	323.5	0.513							
225	16.88	34.764	4.66	0.30	7.	0.04	5.3	260.5	150	18.77	34.799	4.63	24.946	301.8	0.593							
272	16.05	34.714	4.66	0.42	8.	0.00	7.0	245.0	200	17.34	34.778	4.62	25.282	269.6	0.738							
321	15.26	34.654	4.51	0.58	10.	0.00	8.8	233.3	250	16.43	34.741	4.67	25.466	256.2	0.873							
380	13.68	34.532	4.20	0.80	16.	0.00	12.6	210.0	300	15.62	34.684	4.59	25.608	235.8	1.000							
450	11.45	34.376	3.90	1.15	27.	0.00	16.1	180.6	400	13.06	34.487	4.10	26.003	201.4	1.229							
520	9.28	34.236	3.78	1.55	41.	0.00	22.9	154.5	500	9.89	34.272	3.83	26.423	161.4	1.421							
599	7.09	34.153	3.02	2.06	62.	0.00	29.9	129.4	600	7.07	34.154	3.01	26.764	129.1	1.576							
698	5.64	34.102	2.13	2.47	85.	0.00	36.1	109.2	700	5.62	34.184	2.12	26.977	108.9	1.691							
799	4.73	34.247	1.67	2.73	103.	0.00	39.3	94.2	800	4.73	34.246	1.67	27.132	94.1	1.760							
978	3.81	34.375	1.36	2.90	125.	0.00	42.0	75.0	1000	3.64	34.442	1.44	27.367	72.0	1.810							
995A	3.67	34.395	1.43	2.96	129.	0.00	40.8	72.4	1200	3.61	34.449	1.65	27.498	59.5	1.850							
1146A	3.17	34.669	1.57	2.85	141.	0.00	41.4	62.4	1500	2.43	34.568	2.19	27.612	46.7	1.880							
1296A	2.76	34.517	1.82	2.75	147.	0.00	40.9	55.2	1750	2.14	34.606	2.53	27.606	43.6	1.900							
1495A	2.40	34.566	2.15	2.72	152.	0.00	39.8	48.9	2000	1.93	34.627	2.75	27.704	40.3	1.920							
1695A	2.20	34.599	2.67	2.70	155.	0.00	39.6	44.5	2250	1.79	34.644	2.93	27.794	36.0	1.940							
1895A	1.87	34.634	2.82	2.70	154.	0.00	38.6	39.4	2500	1.66	34.658	3.16	27.759	32.6	1.960							
2095A	1.69	34.650	2.99	2.59	155.	0.00	38.3	37.1	2750	1.61	34.666	3.26	27.757	30.0	1.980							
2344A	1.69	34.657	3.13	2.56	155.	0.00	38.5	36.1	3250	1.58	34.673	3.35	27.763	34.4	2.000							
2744A	1.66	34.657	3.16	2.59	154.	0.00	38.2	36.1	3500	1.57	34.676	3.45	27.766	34.1	2.020							
3020A	1.608	34.668	3.27	2.55	154.	0.00	37.9	34.9	3750	1.55	34.679	3.53	27.770	33.8	2.040							
3294A	1.581	34.673	3.36	2.55	154.	0.00	37.9	34.9	4000	1.58	34.681	3.55	27.771	33.6	2.060							
3569A	1.563	34.676	3.48	2.52	153.	0.00	37.5	34.0	4250	1.58	34.683	3.57	27.772	33.6	2.080							
3843A	1.553	34.679	3.55	2.53	153.	0.00	37.5	33.7	4500	1.60	34.684	3.62	27.771	33.7	2.100							
4119A	1.569	34.682	3.55	2.52	151.	0.00	37.6	33.7	4750	1.62	34.684	3.64	27.769	33.9	2.120							
4393A	1.586	34.683	3.60	2.49	152.	0.00	37.3	33.5	5000	1.65	34.685	3.63	27.768	34.0	2.140							
4668A	1.615	34.683	3.65	2.52	152.	0.00	37.2	33.8	5250	1.67	34.684	3.65	27.765	34.2	2.160							
4943A	1.640	34.684	3.63	2.49	151.	0.00	37.1	33.9	5500	1.70	34.686	3.65	27.765	34.2	2.180							
5218A	1.670	34.693	3.65	2.50	151.	0.00	37.2	34.2														
5492A	1.702	34.686	3.64	2.50	150.	0.00	37.1	34.2														

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IIDOPAC LEG III

48 E

LATITUDE 20 55. N LONGITUDE 131 56.5E MO/DAY/YR 06/12/76 START TIME 0703 GMT						LATITUDE 22 30.5N LONGITUDE 132 27. E MO/DAY/YR 06/12/76 START TIME 2145 GMT					
Z	T	S	SIGMA T	CT	DD	Z	T	S	SIGMA T	CT	DD
0	29.00	34.67	21.838	598.6	0.000	0	27.88	34.68	22.365	548.1	0.000
10	28.81	34.66	21.894	593.3	0.060	10	27.85	34.67	22.367	547.9	0.055
20	28.69	34.66	21.933	589.4	0.119	20	27.52	34.66	22.467	536.4	0.109
30	28.54	34.66	21.983	584.7	0.178	30	26.44	34.65	22.804	506.2	0.162
40	27.67	34.69	22.291	555.3	0.255	40	25.51	34.78	23.640	426.3	0.208
50	27.05	34.70	22.498	535.4	0.289	50	22.11	34.79	24.048	387.4	0.249
75	26.23	34.74	22.787	507.6	0.421	75	21.01	34.81	24.567	357.0	0.343
100	25.35	34.76	23.090	478.8	0.545	100	20.25	34.80	24.963	336.3	0.430
125	24.59	34.65	23.373	451.6	0.662	125	19.23	34.79	24.821	313.7	0.513
150	23.33	34.85	23.745	416.3	0.772	150	18.61	34.79	24.979	298.7	0.591
175	22.57	34.87	23.979	394.0	0.875	175	17.78	34.76	25.177	279.9	0.664
200	21.60	34.87	24.250	366.1	0.972	200	17.11	34.76	25.323	266.0	0.734
225	20.77	34.84	24.454	348.7	1.063	225	16.62	34.74	25.423	256.4	0.801
250	19.94	34.93	24.743	321.1	1.149	250	16.18	34.72	25.510	248.4	0.866
275	18.72	34.85	24.997	297.0	1.229	275	16.00	34.70	25.536	245.7	0.930
300	17.89	34.81	25.173	280.3	1.303	300	15.46	34.66	25.627	237.0	0.992
350	15.63	34.64	25.574	242.1	1.439	350	14.25	34.57	25.821	218.6	1.111
400	13.79	34.50	25.864	214.5	1.558	400	12.67	34.45	26.052	196.7	1.240
450	12.55	34.41	26.045	197.4	1.667	450	11.72	34.39	26.188	183.7	1.340
500	10.70	34.30	26.304	172.7	1.765	500	9.84	34.26	26.427	161.6	1.412
550	9.11	34.22	26.511	153.1	1.852	550	8.68	34.21	26.571	147.4	1.494
600	8.04	34.21	26.669	138.1	1.930	600	7.00	34.14	26.764	129.2	1.568
650	6.86	34.22	26.846	121.4	2.000	650	6.33	34.15	26.861	119.9	1.635
700	6.36	34.24	26.928	113.5	2.063	700	5.60	34.18	26.977	108.4	1.696
750	5.80	34.27	27.023	104.5	2.123	750	5.04	34.21	27.067	100.4	1.753
800	5.54	34.32	27.095	97.7	2.178	800	4.56	34.26	27.161	91.5	1.805
850	5.18	34.34	27.154	92.2	2.231	850	4.20	34.30	27.231	84.8	1.853
900	4.88	34.38	27.220	85.9	2.280	900	3.99	34.34	27.285	79.7	1.898
950	4.42	34.40	27.287	79.5	2.326	950	3.70	34.37	27.329	75.5	1.941
1000	4.12	34.42	27.335	75.0	2.369	1000	3.57	34.40	27.375	71.2	1.982
1100	3.74	34.46	27.406	68.3	2.450	1100	3.25	34.45	27.445	64.5	2.057
1200	3.40	34.50	27.471	62.1	2.525	1200	2.95	34.49	27.505	58.4	2.127
1300	3.06	34.53	27.527	56.8	2.593	1300	2.72	34.51	27.542	55.4	2.192
1400	2.86	34.55	27.561	53.5	2.657	1400	2.54	34.54	27.581	51.7	2.254
1500	2.68	34.57	27.593	50.5	2.719	1500	2.40	34.57	27.617	48.3	2.312
1600	2.545	34.584	27.616	48.4	2.777	1600	2.281	34.580	27.635	46.6	2.367
1700	2.438	34.597	27.635	46.5	2.834	1700	2.193	34.595	27.654	44.7	2.421
1800	2.328	34.610	27.655	44.7	2.889	1800	2.065	34.607	27.674	42.9	2.473
1900	2.189	34.621	27.675	42.7	2.942	1900	1.985	34.616	27.687	41.6	2.523
2000	2.112	34.628	27.687	41.6	2.993	2000	1.940	34.625	27.698	40.6	2.573
2100	2.031	34.634	27.698	40.6	3.044	2100	1.875	34.632	27.709	39.6	2.622
2200	1.949	34.640	27.709	39.5	3.093	2200	1.830	34.636	27.715	38.9	2.670
2300	1.887	34.646	27.719	38.6	3.142	2300	1.788	34.640	27.722	38.3	2.717
2400	1.853	34.648	27.723	38.2	3.190	2400	1.758	34.645	27.728	37.7	2.764
2500	1.822	34.650	27.727	37.8	3.237	2500	1.722	34.649	27.734	37.2	2.811
2600	1.789	34.653	27.732	37.3	3.285	2600	1.701	34.651	27.737	36.9	2.857
2700	1.762	34.655	27.736	37.0	3.332	2700	1.678	34.655	27.742	36.4	2.903
2800	1.729	34.657	27.740	36.6	3.379	2800	1.658	34.657	27.745	36.1	2.950
2900	1.708	34.658	27.742	36.4	3.426	2900	1.643	34.661	27.750	35.7	2.995
3000	1.683	34.660	27.746	36.0	3.473	3000	1.633	34.664	27.753	35.4	3.041
3100	1.664	34.662	27.749	35.8	3.520	3100	1.618	34.666	27.755	35.1	3.087
3200	1.640	34.665	27.753	35.4	3.567	3200	1.600	34.668	27.758	34.9	3.133
3300	1.625	34.667	27.756	35.1	3.613	3300	1.594	34.670	27.760	34.7	3.178
3400	1.613	34.669	27.758	34.9	3.659	3400	1.586	34.672	27.763	34.5	3.224
3500	1.605	34.671	27.760	34.7	3.706	3500	1.579	34.674	27.765	34.3	3.270
3600	1.601	34.673	27.762	34.5	3.752	3600	1.571	34.675	27.766	34.1	3.316
3700	1.596	34.674	27.763	34.4	3.799	3700	1.568	34.677	27.768	34.0	3.362
3800	1.593	34.675	27.764	34.3	3.846	3800	1.567	34.678	27.769	33.9	3.408
3900	1.595	34.676	27.765	34.2	3.893	3900	1.566	34.679	27.770	33.8	3.454
4000	1.593	34.677	27.766	34.1	3.940	4000	1.570	34.681	27.771	33.7	3.501
4100	1.595	34.679	27.767	34.0	3.987	4100	1.572	34.681	27.771	33.7	3.548
4200	1.597	34.675	27.767	34.0	4.035	4200	1.577	34.682	27.771	33.6	3.595
4300	1.600	34.681	27.769	33.9	4.082	4300	1.583	34.683	27.772	33.6	3.642
4400	1.605	34.683	27.770	33.8	4.130	4400	1.589	34.683	27.771	33.6	3.690
4500	1.610	34.682	27.769	33.9	4.179	4500	1.596	34.684	27.771	33.6	3.738
4600	1.616	34.685	27.769	33.6	4.228	4600	1.605	34.684	27.771	33.7	3.786
4700	1.621	34.685	27.770	33.7	4.277	4700	1.614	34.685	27.771	33.7	3.835
4800	1.631	34.684	27.769	33.9	4.326	4800	1.623	34.685	27.770	33.7	3.884
4900	1.640	34.684	27.768	33.9	4.376	4900	1.633	34.684	27.769	33.9	3.934
5000	1.648	34.684	27.768	34.0	4.426	5000	1.642	34.685	27.769	33.9	3.984
5100	1.658	34.685	27.768	34.0	4.477	5100	1.652	34.684	27.767	34.0	4.035
5200	1.667	34.684	27.766	34.1	4.528	5200	1.663	34.684	27.766	34.1	4.086
5300	1.679	34.684	27.765	34.2	4.580	5300	1.675	34.683	27.765	34.2	4.137
5400	1.690	34.684	27.764	34.3	4.632	5400	1.688	34.683	27.764	34.3	4.189
5500	1.703	34.684	27.763	34.4	4.684	5500	1.700	34.682	27.762	34.5	4.242
5600	1.716	34.684		34.5	4.738						
5700	1.728	34.684		34.5	4.791						
5800	1.743	34.684		34.7	4.845						
5900	1.758	34.684		34.8	4.900						

LATITUDE		LONGITUDE		MO/DAY/YR		MESSENGER		TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES		
22 30.5N		133 59.6E		6/13/76		1438 1927		GXT	5450M	180	6KT	1	180 4 6		
Z	T	S	Q2	P04	SI03	NO2	NO3	DT	Z	T	S	Q2	SIGT	DT	CC
0	27.87	34.834	4.68	0.05	2.	0.00	0.2	551.1	0	27.87	34.834	4.68	22.334	551.1	0.000
10	27.89	34.835	4.66	0.03	1.	0.00	0.2	551.7	10	27.89	34.835	4.66	22.328	551.7	0.055
20	27.88	34.837	4.62	0.03	1.	0.00	0.2	550.3	20	27.85	34.837	4.62	22.343	550.3	0.110
30	24.50	34.802	5.14	0.01	2.	0.00	0.2	455.0	30	24.92	34.801	5.09	23.237	466.8	0.161
51	22.35	34.814	5.28	0.05	2.	0.00	0.2	392.1	50	22.39	34.815	5.27	23.987	395.2	0.247
76	20.89	34.800	5.29	0.03	2.	0.00	0.2	354.6	75	20.93	34.801	5.29	24.342	355.6	0.341
101	19.85	34.791	5.10	0.07	3.	0.05	0.2	328.9	100	19.89	34.791	5.11	24.652	329.8	0.428
131	18.94	34.793	4.73	0.18	3.	0.07	1.3	306.4	125	19.10	34.792	4.80	24.856	310.4	0.509
171	18.01	34.786	4.65	0.24	3.	0.05	3.1	284.8	150	18.47	34.791	4.69	25.014	295.4	0.586
220	16.97	34.763	4.58	0.37	5.	0.00	5.0	262.6	200	17.39	34.776	4.60	25.268	271.2	0.730
271	15.87	34.699	4.58	0.48	8.	0.00	6.7	243.0	250	16.33	34.729	4.58	25.463	250.8	0.864
350	14.02	34.562	4.38	0.70	14.	0.00	11.4	214.6	300	15.21	34.653	4.53	25.677	232.3	0.969
449	11.52	34.380	4.01	1.15	25.	0.00	17.2	180.9	400	12.83	34.475	4.24	26.039	197.9	1.214
548	8.07	34.193	3.02	1.94	50.	0.00	27.5	159.8	500	9.72	34.262	3.55	26.443	159.5	1.403
591A	6.98	34.189	2.52	2.15	64.	0.00	26.9	125.2	600	6.85	34.188	2.48	26.822	125.6	1.554
649	6.26	34.185	2.31	2.40	73.	0.05	33.2	116.4	700	5.54	34.215	1.93	27.011	105.7	1.677
690A	5.63	34.211	1.95	2.41	86.	0.00	34.5	106.9	800	4.57	34.295	1.53	27.187	88.9	1.783
750	5.13	34.238	1.84	2.68	93.	0.05	37.3	99.3	1000	3.65	34.394	1.40	27.362	72.4	1.961
789A	4.65	34.287	1.54	2.72	105.	0.09	36.4	90.4	1200	3.02	34.486	1.61	27.495	59.8	2.109
939A	3.93	34.353	1.36	2.70	122.	0.04	38.0	78.2	1500	2.44	34.562	2.12	27.607	49.2	2.297
1088A	3.30	34.450	1.51	2.81	134.	0.00	39.8	64.9	1750	2.11	34.603	2.49	27.666	43.6	2.434
1286A	2.86	34.503	1.70	2.70	145.	0.00	40.2	57.1	2000	1.93	34.624	2.72	27.697	40.6	2.560
1486A	2.46	34.559	2.10	2.63	148.	0.00	39.3	49.6	2250	1.81	34.637	2.93	27.717	38.7	2.681
1784A	2.08	34.605	2.53	2.73	151.	0.00	38.4	43.1	2500	1.70	34.650	3.08	27.736	36.9	2.798
2084A	1.89	34.628	2.78	2.61	153.	0.00	38.0	40.0	2750	1.62	34.661	3.19	27.750	35.6	2.914
2384A	1.75	34.644	3.03	2.56	153.	0.00	38.3	37.7	3000	1.59	34.668	3.32	27.759	34.8	3.024
2684A	1.636	34.658	3.15	2.55	153.	0.00	37.1	35.9	3250	1.55	34.673	3.45	27.765	34.2	3.136
2984A	1.587	34.667	3.31	2.54	152.	0.00	36.5	34.8	3500	1.54	34.677	3.46	27.770	33.8	3.249
3285A	1.550	34.673	3.46	2.52	152.	0.00	37.1	34.1	3750	1.54	34.680	3.49	27.771	33.6	3.362
3586A	1.536	34.678	3.46	2.46	151.	0.00	36.9	33.7	4000	1.56	34.681	3.52	27.771	33.6	3.477
3886A	1.547	34.680	3.51	2.46	150.	0.00	36.7	33.6	4250	1.58	34.681	3.56	27.770	33.8	3.594
4192A	1.571	34.680	3.54	2.46	149.	0.00	36.7	33.7	4500	1.60	34.683	3.63	27.770	33.8	3.714
4495A	1.596	34.682	3.63	2.50	149.	0.00	37.3	33.8	4750	1.62	34.684	3.60	27.769	33.9	3.836
4797A	1.626	34.683	3.59	2.44	148.	0.00	36.8	33.9	5000	1.65	34.684	3.61	27.767	34.0	3.961
5101A	1.656	34.683	3.62	2.45	148.	0.00	36.9	34.1	5250	1.67	34.684		27.765	34.2	4.089
5404A	1.686	34.684	3.810	2.48	148.	0.00	36.7	34.2							

LATITUDE		LONGITUDE		MO/DAY/YR		MESSENGER		TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES		
22 32.4N		135 58.5E		6/14/76		0737 1210		GXT	5294M	160	7KT	1			
Z	T	S	Q2	P04	SI03	NO2	NO3	DT	Z	T	S	Q2	SIGT	DT	CC
0	27.78	34.826	4.73	0.07	3.	0.6	548.9	0	27.78	34.826	4.73	22.357	548.9	0.000	
10	27.67	34.817	4.71	0.06	3.	0.2	548.1	10	27.67	34.817	4.71	22.386	546.1	0.055	
20	27.62	34.869	4.73	0.07	3.	0.0	540.8	20	27.62	34.869	4.73	22.441	540.8	0.109	
30	27.41	34.870	4.75	0.07	3.	0.0	534.3	30	27.41	34.870	4.75	22.510	534.3	0.163	
40	26.42	34.810	4.86	0.13	3.	0.0	508.4	50	25.74	34.805	4.96	22.988	488.6	0.266	
70	24.57	34.824	5.10	0.08	3.	0.0	453.1	75	24.16	34.814	5.10	23.474	442.2	0.383	
90	23.01	34.792	5.12	0.07	3.	0.7	411.6	100	22.51	34.798	5.08	23.942	397.5	0.488	
115	21.92	34.809	5.03	0.08	3.	0.6	381.0	125	21.54	34.802	5.09	24.215	371.5	0.586	
145	20.81	34.786	5.17	0.09	3.	0.6	353.6	150	20.60	34.787	5.13	24.459	348.2	0.677	
179	19.43	34.802	4.79	0.16	3.	0.5	317.7	200	18.70	34.804	4.66	24.967	299.8	0.842	
223	18.02	34.800	4.60	0.28	6.	0.5	284.0	250	17.48	34.787	4.65	25.259	272.0	0.989	
283	16.90	34.758	4.74	0.32	6.	2.1	261.4	300	16.58	34.741	4.72	25.433	255.5	1.125	
337	15.82	34.688	4.63	0.46	9.	3.6	242.7	400	14.26	34.567	4.43	25.816	219.1	1.372	
433	13.28	34.488	4.28	0.85	20.	7.5	205.5	500	10.90	34.323	3.88	26.287	174.4	1.580	
498	10.96	34.326	3.90	1.32	30.	18.1	175.2	600	8.35	34.203	3.09	26.616	143.1	1.750	
560	9.20	34.237	3.38	1.68	45.	24.1	153.2	700	6.03	34.195	2.07	26.935	112.9	1.888	
612	8.09	34.193	3.00	1.97	56.	31.7	140.1	800	4.87	34.258	1.61	27.124	95.0	2.001	
620A	7.16	34.173	2.61	2.02	75.	34.0	128.8	1000	3.73	34.404	1.41	27.361	72.5	2.185	
721A	5.73	34.203	1.93	2.38	100.	39.8	108.7	1200	3.11	34.482	1.59	27.484	60.9	2.335	
821A	4.69	34.274	1.50	2.67	119.	43.6	91.8	1500	2.54	34.555	2.07	27.593	50.6	2.528	
921A	4.10	34.347	1.37	2.76	131.	43.9	80.3	1750	2.19	34.599	2.43	27.656	44.5	2.668	
1021A	3.65	34.416	1.43	2.63	132.	43.2	70.7	2000	1.97	34.625	2.71	27.695	40.9	2.796	
1120A	3.30	34.456	1.48	2.80	144.	41.9	64.5	2250	1.85	34.641	2.89	27.717	38.7	2.918	
1321A	2.88	34.513	1.79	2.78	152.	39.40	56.5	2500	1.76	34.647	2.99	27.729	37.6	3.037	
1621A	2.35	34.578	2.25	2.71	156.	41.0	47.3	2750	1.67	34.657	3.17	27.744	36.2	3.153	
1920A	2.03	34.617	2.63	2.69	153.	40.8	41.8	3000	1.60	34.664	3.31	27.754	35.2	3.268	
2220A	1.86	34.639	2.88	2.53	152.	42.1	38.9	3250	1.57	34.670	3.38	27.762	34.5	3.381	
2520A	1.749	34.647	3.00	2.56	153.	41.8	37.5	3500	1.56	34.675	3.43	27.766	34.1	3.494	
2821A	1.648	34.659	3.22	2.45	152.	40.8	35.9	3750	1.56	34.679	3.48	27.769	33.8	3.608	
3120A	1.582	34.667	3.35	2.52	152.	40.3	34.8	4000	1.56	34.681	3.54	27.771	33.6	3.724	
3420A	1.557	34.673	3.41	2.49	150.	39.9	34.2	4250	1.57	34.682	3.59	27.771	33.6	3.841	
3720A	1.560	34.678	3.47	2.45	148.	39.5	33.8	4500	1.59	34.684	3.64	27.771	33.6	3.960	
4019A	1.556	34.680	3.54	2.50	148.	39.5	33.6	4750	1.61	34.684	3.64	27.770	33.8	4.082	
4319A	1.576	34.682	3.61	2.40	149.	38.1	33.6	5000	1.64	34.684	3.63	27.767	34.0	4.207	
4619A	1.599	34.684	3.65	2.43	149.	39.3	33.6								
4919A	1.631	34.683	3.62	2.41	148.	41.40	33.9								
5220A	1.669	34.684	3.64	2.41	147.	41.50	34.1								

49 D

INDOPAC LEG III

50 E

LATITUDE LONGITUDE MO/DAY/YR START TIME						LATITUDE LONGITUDE MO/DAY/YR START TIME					
22 30.5N 133 59.6E 06/13/76 1230 GMT						22 32.4N 135 58.5E 06/14/76 0110 GMT					
Z	T	S	SIGMA T	DT	DO	Z	T	S	SIGMA T	DT	DO
0	27.94	34.84	22.315	552.9	0.000	0	28.07	34.82	22.258	558.4	0.000
10	27.91	34.84	22.325	551.9	0.055	10	27.74	34.85	22.287	548.9	0.055
20	27.07	34.71	22.499	535.3	0.110	20	27.55	34.85	22.450	540.0	0.110
30	23.84	34.72	23.498	439.9	0.159	30	27.17	34.85	22.572	528.3	0.159
40	22.59	34.78	23.905	401.0	0.201	40	26.44	34.80	22.792	507.3	0.215
50	21.88	34.79	24.112	381.3	0.240	50	25.90	34.80	22.935	493.6	0.266
75	20.89	34.78	24.376	356.1	0.335	75	25.51	34.80	23.658	424.9	0.401
100	19.52	34.77	24.731	322.3	0.415	100	22.20	34.78	24.015	390.5	0.404
125	18.69	34.77	24.943	302.1	0.497	125	20.70	34.78	24.428	351.2	0.477
150	18.01	34.77	25.113	286.0	0.572	150	19.73	34.79	24.692	326.0	0.493
175	17.25	34.76	25.289	269.2	0.643	175	19.05	34.80	24.875	308.7	0.744
200	16.87	34.74	25.364	262.0	0.711	200	18.22	34.79	25.076	289.5	0.820
225	16.38	34.72	25.464	252.8	0.777	225	17.62	34.77	25.208	276.9	0.893
250	15.98	34.70	25.540	245.3	0.841	250	16.92	34.74	25.353	263.1	0.952
275	15.58	34.67	25.608	238.9	0.903	275	16.39	34.72	25.461	252.8	1.029
300	15.22	34.65	25.673	232.7	0.964	300	15.94	34.70	25.549	244.4	1.093
350	13.84	34.53	25.877	213.3	1.080	350	14.92	34.60	25.700	230.1	1.217
400	12.46	34.44	26.085	193.5	1.187	400	13.34	34.47	26.933	208.0	1.351
450	11.38	34.36	26.228	180.0	1.265	450	11.98	34.36	26.131	189.1	1.456
500	9.89	34.27	26.421	161.6	1.376	500	10.38	34.27	26.337	169.6	1.551
550	8.13	34.18	26.632	141.6	1.497	550	8.92	34.21	26.534	151.0	1.647
600	7.05	34.19	26.796	126.1	1.529	600	7.58	34.16	26.697	135.4	1.693
650	6.26	34.21	26.918	114.5	1.593	650	6.50	34.15	26.839	122.0	1.762
700	5.47	34.21	27.016	105.2	1.652	700	5.74	34.18	26.960	110.6	1.825
750	4.95	34.24	27.101	97.1	1.707	750	5.18	34.22	27.058	101.2	1.882
800	4.66	34.27	27.158	91.8	1.759	800	4.69	34.25	27.139	93.6	1.935
850	4.37	34.30	27.213	86.5	1.807	850	4.34	34.29	27.208	87.0	1.984
900	4.03	34.34	27.281	80.1	1.853	900	4.11	34.34	27.272	80.9	2.031
950	3.75	34.37	27.333	75.1	1.896	950	3.83	34.37	27.325	75.9	2.074
1000	3.48	34.40	27.384	70.4	1.936	1000	3.61	34.41	27.374	70.8	2.115
1100	3.23	34.45	27.447	64.3	2.011	1100	3.26	34.45	27.485	64.6	2.190
1200	2.96	34.48	27.496	59.7	2.081	1200	3.05	34.49	27.496	59.7	2.261
1300	2.74	34.52	27.548	54.6	2.146	1300	2.82	34.51	27.533	56.2	2.327
1400	2.57	34.54	27.578	51.9	2.208	1400	2.62	34.54	27.574	52.3	2.389
1500	2.40	34.56	27.609	49.0	2.266	1500	2.47	34.56	27.603	49.6	2.448
1600	2.267	34.578	27.634	46.6	2.322	1600	2.336	34.575	27.626	47.4	2.505
1700	2.186	34.589	27.650	45.1	2.376	1700	2.209	34.589	27.647	45.3	2.560
1800	2.053	34.605	27.673	42.9	2.428	1800	2.127	34.610	27.671	43.1	2.613
1900	1.986	34.614	27.686	41.7	2.479	1900	2.049	34.617	27.683	42.0	2.664
2000	1.932	34.620	27.695	40.9	2.529	2000	1.974	34.624	27.695	40.9	2.714
2100	1.876	34.628	27.705	39.9	2.578	2100	1.911	34.634	27.708	39.7	2.763
2200	1.828	34.635	27.713	39.1	2.626	2200	1.871	34.636	27.714	39.1	2.811
2300	1.787	34.637	27.719	38.5	2.674	2300	1.825	34.641	27.720	38.5	2.859
2400	1.737	34.643	27.728	37.7	2.721	2400	1.797	34.644	27.728	38.1	2.906
2500	1.703	34.647	27.734	37.2	2.767	2500	1.768	34.647	27.729	37.6	2.954
2600	1.673	34.650	27.738	36.7	2.813	2600	1.728	34.652	27.736	37.0	3.001
2700	1.640	34.654	27.744	36.2	2.859	2700	1.704	34.655	27.740	36.8	3.047
2800	1.622	34.657	27.748	35.6	2.905	2800	1.665	34.658	27.746	36.1	3.094
2900	1.607	34.660	27.751	35.5	2.950	2900	1.639	34.660	27.749	35.7	3.140
3000	1.585	34.663	27.755	35.1	2.996	3000	1.619	34.662	27.752	35.4	3.185
3100	1.574	34.665	27.758	34.9	3.041	3100	1.609	34.663	27.754	35.3	3.231
3200	1.563	34.668	27.761	34.6	3.086	3200	1.591	34.665	27.757	35.0	3.277
3300	1.551	34.670	27.764	34.4	3.131	3300	1.579	34.668	27.760	34.7	3.323
3400	1.545	34.672	27.766	34.2	3.176	3400	1.574	34.669	27.761	34.6	3.368
3500	1.542	34.674	27.767	34.0	3.222	3500	1.561	34.673	27.765	34.2	3.414
3600	1.541	34.675	27.768	33.9	3.267	3600	1.553	34.675	27.767	34.0	3.460
3700	1.540	34.677	27.770	33.8	3.312	3700	1.553	34.679	27.771	33.7	3.505
3800	1.542	34.678	27.771	33.7	3.358	3800	1.549	34.679	27.771	33.7	3.551
3900	1.546	34.678	27.770	33.7	3.404	3900	1.549	34.679	27.771	33.7	3.597
4000	1.553	34.679	27.771	33.7	3.450	4000	1.553	34.680	27.771	33.6	3.643
4100	1.559	34.679	27.770	33.7	3.497	4100	1.558	34.682	27.773	33.5	3.690
4200	1.568	34.680	27.770	33.7	3.544	4200	1.564	34.681	27.771	33.4	3.737
4300	1.576	34.680	27.770	33.6	3.592	4300	1.571	34.682	27.772	33.6	3.784
4400	1.584	34.680	27.769	33.6	3.639	4400	1.578	34.682	27.771	33.6	3.832
4500	1.593	34.681	27.769	33.8	3.688	4500	1.586	34.683	27.771	33.6	3.879
4600	1.603	34.682	27.769	33.6	3.736	4600	1.594	34.684	27.771	33.6	3.928
4700	1.613	34.682	27.769	33.9	3.785	4700	1.606	34.685	27.771	33.6	3.976
4800	1.623	34.683	27.769	32.9	3.834	4800	1.616	34.684	27.770	33.8	4.026
4900	1.633	34.683	27.768	34.0	3.884	4900	1.627	34.684	27.769	33.8	4.075
5000	1.643	34.683	27.767	34.0	3.934	5000	1.639	34.684	27.769	33.9	4.125
5100	1.654	34.683	27.766	34.1	3.985	5100	1.652	34.684	27.767	34.0	4.176
5200	1.663	34.684	27.766	34.1	4.036	5200	1.663	34.683	27.766	34.2	4.227
5300	1.673	34.684	27.766	34.2	4.088	5300	1.668	34.683	27.765	34.2	4.246
5400	1.684	34.684	27.765	34.2	4.140						

RV THOMAS WASHINGTON

INDOPAC LEG III

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LATITUDE		LONGITUDE		MO/DAY/YR		MESSENGER		TIME	BOTTOM		WIND		SPEED	WEATHER	DOMINANT WAVES			
22 29.2N		137 19.5E		6/15/76		0105 0356		GMT	4490M		180		12KT	1	180 4 5			
Z	T	S	02	P04	S103	002	003	01	Z	T	S	02	S101	01	LD			
0	27.48	34.898	4.66	0.00	4.	0.1	534.4	0	27.48	34.898	4.66	22.508	534.4	0.000				
10	27.33	34.896	4.68	0.01	3.	0.1	529.9	10	27.33	34.896	4.68	22.350	529.9	0.053				
20	25.95	34.856	4.88	0.06	2.	0.1	491.1	20	25.95	34.856	4.88	22.762	491.1	0.104				
36	23.46	34.795	5.09	0.06	2.	0.1	423.8	30	24.31	34.809	5.02	23.427	440.6	0.151				
51	22.78	34.812	5.11	0.02	3.	0.1	403.9	50	22.61	34.810	5.11	23.866	404.7	0.237				
72	21.07	34.818	5.12	0.01	5.	0.1	358.0	75	20.69	34.815	5.13	24.404	355.4	0.332				
96	19.90	34.791	5.16	0.02	5.	0.1	330.2	100	19.77	34.768	5.15	24.680	327.2	0.418				
122	19.23	34.775	4.95	0.14	5.	1.1	314.6	125	19.18	34.775	4.93	24.823	313.5	0.499				
157	18.69	34.782	4.81	0.15	5.	1.9	301.2	150	18.79	34.780	4.83	24.927	303.7	0.577				
221	17.46	34.766	4.76	0.32	7.	3.7	273.5	200	17.85	34.773	4.74	25.153	282.1	0.727				
255	17.01	34.756	4.71	0.38	7.	5.9	264.0	250	17.08	34.758	4.72	25.329	265.3	0.867				
304	16.11	34.717	4.70	0.46	10.	5.3	246.4	300	16.19	34.722	4.70	25.508	248.4	1.000				
364	14.70	34.612	4.45	0.70	15.	9.6	228.7	400	13.65	34.530	4.33	25.915	209.7	1.239				
418	13.08	34.485	4.27	0.92	22.	12.0	201.9	500	9.99	34.273	3.90	26.407	163.0	1.436				
519	9.29	34.236	3.80	1.51	46.	23.2	154.7	600	7.28	34.145	3.26	26.728	132.5	1.594				
622	6.84	34.133	3.06	2.14	71.	31.2	127.6	700	5.55	34.161	2.22	26.767	109.9	1.724				
655A	6.17	34.138	2.55	2.28	82.	32.0	118.8	800	4.74	34.249	1.61	27.131	94.3	1.834				
755A	5.05	34.200	2.04	2.52	97.	35.3	101.2	1000	3.71	34.406	1.43	27.366	72.1	2.017				
856A	4.44	34.307	1.58	2.81	113.	41.1	86.7	1200	3.01	34.491	1.60	27.499	58.4	2.165				
956A	3.91	34.380	1.40	2.87	125.	43.1	75.9	1500	2.52	34.567	2.13	27.603	49.6	2.354				
1155A	3.13	34.475	1.54	2.89	141.	42.5	61.6	1750	2.27	34.599	2.42	27.650	45.1	2.494				
1355A	2.72	34.531	1.85	2.82	147.	41.9	53.8	2000	2.04	34.621	2.74	27.689	41.3	2.624				
1556A	2.46	34.576	2.23	2.72	149.	41.8	48.3	2250	1.84	34.638	2.97	27.715	38.8	2.744				
1756A	2.263	34.598	2.43	2.69	149.	41.0	45.1	2500	1.76	34.650	3.12	27.731	37.3	2.865				
2056A	1.954	34.626	2.81	2.65	150.	40.4	40.6	2750	1.70	34.659	3.19	27.743	36.3	2.981				
2356A	1.804	34.645	3.04	2.61	150.	40.5	38.1	3000	1.64	34.667	3.24	27.754	35.3	3.096				
2657A	1.724	34.655	3.18	2.66	151.	40.3	36.7	3250	1.59	34.674	3.35	27.763	34.4	3.210				
2956A	1.651	34.665	3.22	2.59	151.	39.8	35.4	3500	1.56	34.678	3.44	27.768	33.9	3.324				
3257A	1.589	34.673	3.35	2.59	150.	39.3	34.4	3750	1.53	34.682	3.57	27.774	33.3	3.437				
3557A	1.558	34.678	3.46	2.47	151.	39.2	33.9	4000	1.52	34.685	3.64	27.777	33.1	3.550				
3857A	1.516	34.684	3.63	2.47	149.	38.7	33.1	4250	1.54	34.686	3.65	27.776	33.1	3.666				
4158A	1.536	34.685	3.65	2.51	148.	38.8	33.1	4500	1.57	34.686	3.66	27.775	33.3	3.783				
4458A	1.565	34.686	3.66	2.52	147.	38.6	33.2											

RV THOMAS WASHINGTON

INDOPAC LEG III

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LATITUDE 22 32.5N		LONGITUDE 139 25.1E		MO/DAY/YR 6/15/76		MESSENGER 1619 1930		TIME GMT	BOTTOM 4523M		WIND 210		SPEED 1KT		WEATHER 1		DOMINANT WAVES 180 5 5			
Z	T	S	02	P04	S103	002	003	01	Z	T	S	02	S101	01	LD					
0	28.09	34.670	4.66	0.06	2.	0.3	569.8	0	28.09	34.670	4.66	22.139	569.8	0.000						
10	28.08	34.669	4.66	0.01	2.	0.3	569.5	10	28.08	34.669	4.66	22.141	569.5	0.057						
20	26.96	34.720	4.81	0.05	1.	0.3	531.3	20	26.96	34.720	4.81	22.541	531.3	0.112						
31	26.04	34.718	4.84	0.01	1.	0.3	503.7	30	26.11	34.720	4.84	22.810	505.6	0.164						
51	25.39	34.713	4.83	0.19	2.	0.3	484.8	50	25.41	34.717	4.83	23.020	485.5	0.263						
72	24.25	34.787	4.85	0.15	0.	0.3	446.6	75	24.10	34.797	4.85	23.477	441.9	0.380						
102	22.71	34.815	4.85	0.13	1.	0.3	401.8	100	22.81	34.815	4.85	23.868	404.6	0.487						
133	20.87	34.795	4.94	0.15	0.	0.3	354.6	125	21.31	34.799	4.93	24.276	365.6	0.584						
173	19.89	34.834	4.61	0.25	0.	1.5	326.8	150	20.37	34.812	4.82	24.539	340.6	0.673						
253	17.12	34.772	4.66	0.41	2.	4.0	265.3	200	18.98	34.824	4.63	24.911	325.1	0.838						
353	14.56	34.588	4.33	0.71	9.	9.5	223.6	250	17.23	34.776	4.66	25.307	267.5	0.985						
451	11.10	34.330	3.94	1.35	27.	17.9	177.3	300	15.92	34.704	4.56	25.558	244.4	1.117						
548	8.35	34.188	3.26	1.92	51.	25.8	144.2	400	12.92	34.456	4.19	26.068	200.9	1.343						
647	6.24	34.166	2.35	2.45	82.	33.6	117.6	500	9.63	34.245	3.63	26.445	159.4	1.539						
745A	5.27	34.225	2.70	2.70	101.	35.9	101.8	600	7.13	34.164	2.76	26.764	129.1	1.693						
746	5.29	34.204	1.87	2.78	101.	37.0	103.6	700	5.72	34.197	2.05	26.776	109.0	1.621						
845A	4.74	34.330	1.41	2.70	114.	40.1	88.1	800	4.99	34.273	1.62	27.122	95.2	1.932						
847	4.66	34.330	1.44	2.92	113.	39.1	87.3	1000	3.88	34.431	1.52	27.368	71.8	2.117						
945A	4.05	34.393	1.45	2.72	129.	41.3	76.3	1200	3.33	34.509	1.78	27.485	60.7	2.267						
1095A	3.68	34.484	1.68	2.61	139.	40.6	65.9	1500	2.55	34.541	2.11	27.541	51.6	2.462						
1243A	3.18	34.514	1.82	2.83	143.	41.2	59.0	1750	2.30	34.597	2.41	27.646	45.6	2.605						
1444A	2.63	34.529					53.2	2000	2.04	34.624	2.69	27.690	41.4	2.736						
1743A	2.309	34.595	2.40	2.73	148.	41.0	45.6	2250	1.87	34.633	2.88	27.713	39.0	2.859						
2042A	1.999	34.627	2.73	2.73	149.	40.1	40.9	2500	1.77	34.649	3.00	27.729	37.5	2.979						
2341A	1.832	34.643	2.93	2.68	151.	40.1	38.4	2750	1.63	34.658	3.11	27.743	36.3	3.095						
2641A	1.726	34.653	3.06	2.65	151.	38.8	36.9	3000	1.62	34.667	3.24	27.755	35.1	3.210						
2941A	1.635	34.664	3.21	2.69	147.	38.2	35.4	3250	1.57	34.675	3.36	27.765	34.2	3.323						
3240A	1.572	34.674	3.36	2.52	148.	38.0	34.2	3500	1.53	34.680	3.49	27.772	33.5	3.435						
3541A	1.528	34.680	3.51	2.56	150.	37.5	33.5	3750	1.51	34.683	3.60	27.776	33.1	3.547						
3840A	1.505	34.683	3.63	2.58	149.	37.8	33.1	4000	1.51	34.685	3.66	27.777	33.0	3.659						
4140A	1.521	34.685	3.67	2.52	148.	36.9	33.0	4250	1.52	34.686	3.69	27.778	33.0	3.771						
4443A	1.526	34.687	3.73	2.50	146.	37.8	32.0	4500	1.53	34.687	3.74	27.779	32.9	3.883						

SI D						INCOFAC LEG III						SI D					
LATITUDE	LONGITUDE	MO/DAT/YR	START TIME			LATITUDE	LONGITUDE	MO/DAT/YR	START TIME			LATITUDE	LONGITUDE	MO/DAT/YR	START TIME		
22 29.2N	137 19.5E	06/14/76	2:55 GMT			22 34.5N	137 25.5E	06/15/76	2:55 GMT			22 34.5N	137 25.5E	06/15/76	2:55 GMT		
Z	T	S	SIGMA T	DT	DB	Z	T	S	SIGMA T	DT	DB	Z	T	S	SIGMA T	DT	DB
0	27.59	34.91	22.546	530.6	0.000	0	28.10	34.60	22.143	569.4	0.000	0	28.10	34.60	22.143	569.4	0.000
10	26.98	34.80	22.655	529.4	0.053	10	28.01	34.69	22.174	566.5	0.057	10	28.01	34.69	22.174	566.5	0.057
20	25.04	34.77	23.177	470.5	0.102	20	27.01	34.70	22.555	550.0	0.112	20	27.01	34.70	22.555	550.0	0.112
30	23.59	34.79	23.624	427.8	0.147	30	26.14	34.75	22.821	534.4	0.164	30	26.14	34.75	22.821	534.4	0.164
40	23.07	34.80	23.783	412.7	0.189	40	25.84	34.75	22.911	495.4	0.214	40	25.84	34.75	22.911	495.4	0.214
50	22.39	34.78	23.962	395.6	0.230	50	25.34	34.74	23.063	481.4	0.263	50	25.34	34.74	23.063	481.4	0.263
75	20.20	34.78	24.561	338.5	0.322	75	23.42	34.80	23.681	422.4	0.316	75	23.42	34.80	23.681	422.4	0.316
100	19.45	34.77	24.749	320.5	0.405	100	22.47	34.80	23.799	392.0	0.479	100	22.47	34.80	23.799	392.0	0.479
125	18.94	34.77	24.880	308.1	0.485	125	21.18	34.80	24.313	362.1	0.514	125	21.18	34.80	24.313	362.1	0.514
150	18.32	34.77	25.036	293.3	0.561	150	20.40	34.81	24.509	343.4	0.664	150	20.40	34.81	24.509	343.4	0.664
175	17.92	34.77	25.135	283.9	0.635	175	19.79	34.87	24.737	321.7	0.748	175	19.79	34.87	24.737	321.7	0.748
200	17.24	34.76	25.292	268.9	0.705	200	18.53	34.83	25.021	293.9	0.827	200	18.53	34.83	25.021	293.9	0.827
225	16.89	34.75	25.367	261.7	0.773	225	17.83	34.81	25.187	278.9	0.900	225	17.83	34.81	25.187	278.9	0.900
250	16.39	34.73	25.469	252.1	0.840	250	17.34	34.79	25.291	269.0	0.971	250	17.34	34.79	25.291	269.0	0.971
275	16.02	34.71	25.539	245.4	0.904	275	16.75	34.75	25.400	258.6	1.039	275	16.75	34.75	25.400	258.6	1.039
300	15.53	34.68	25.627	237.1	0.966	300	16.12	34.71	25.516	247.6	1.104	300	16.12	34.71	25.516	247.6	1.104
350	14.58	34.60	25.774	223.1	1.086	350	14.65	34.59	25.751	225.3	1.227	350	14.65	34.59	25.751	225.3	1.227
400	13.39	34.51	25.954	206.0	1.198	400	13.19	34.47	25.964	205.1	1.340	400	13.19	34.47	25.964	205.1	1.340
450	11.43	34.35	26.211	181.6	1.301	450	11.20	34.33	26.238	179.0	1.441	450	11.20	34.33	26.238	179.0	1.441
500	9.67	34.25	26.443	159.6	1.391	500	9.78	34.27	26.443	159.7	1.531	500	9.78	34.27	26.443	159.7	1.531
550	8.63	34.19	26.564	148.1	1.473	550	8.59	34.21	26.588	146.1	1.612	550	8.59	34.21	26.588	146.1	1.612
600	7.58	34.16	26.697	135.4	1.549	600	7.12	34.14	26.747	130.7	1.686	600	7.12	34.14	26.747	130.7	1.686
650	6.52	34.15	26.821	123.0	1.618	650	6.52	34.10	26.844	121.5	1.754	650	6.52	34.10	26.844	121.5	1.754
700	5.75	34.17	26.951	111.4	1.682	700	5.70	34.19	26.971	109.3	1.816	700	5.70	34.19	26.971	109.3	1.816
750	5.07	34.18	27.040	102.9	1.740	750	5.18	34.21	27.051	101.9	1.873	750	5.18	34.21	27.051	101.9	1.873
800	4.68	34.25	27.140	93.5	1.793	800	4.85	34.20	27.140	93.5	1.927	800	4.85	34.20	27.140	93.5	1.927
850	4.41	34.30	27.209	86.9	1.842	850	4.71	34.32	27.192	88.4	1.976	850	4.71	34.32	27.192	88.4	1.976
900	4.11	34.34	27.272	80.9	1.888	900	4.28	34.33	27.247	83.4	2.024	900	4.28	34.33	27.247	83.4	2.024
950	3.89	34.37	27.319	76.5	1.932	950	4.13	34.37	27.294	78.8	2.069	950	4.13	34.37	27.294	78.8	2.069
1000	3.63	34.40	27.369	71.8	1.973	1000	3.90	34.41	27.350	73.6	2.111	1000	3.90	34.41	27.350	73.6	2.111
1100	3.26	34.45	27.445	64.6	2.049	1100	3.62	34.47	27.425	66.5	2.190	1100	3.62	34.47	27.425	66.5	2.190
1200	3.02	34.48	27.491	60.2	2.120	1200	3.23	34.50	27.487	60.7	2.262	1200	3.23	34.50	27.487	60.7	2.262
1300	2.82	34.51	27.533	56.2	2.186	1300	2.92	34.51	27.524	57.1	2.330	1300	2.92	34.51	27.524	57.1	2.330
1400	2.68	34.55	27.577	52.0	2.248	1400	2.65	34.52	27.556	54.1	2.394	1400	2.65	34.52	27.556	54.1	2.394
1500	2.55	34.57	27.604	49.5	2.308	1500	2.52	34.54	27.583	51.5	2.455	1500	2.52	34.54	27.583	51.5	2.455
1600	2.407	34.581	27.625	47.5	2.365	1600	2.410	34.569	27.615	48.5	2.513	1600	2.410	34.569	27.615	48.5	2.513
1700	2.298	34.595	27.645	45.6	2.420	1700	2.365	34.581	27.629	47.1	2.570	1700	2.365	34.581	27.629	47.1	2.570
1800	2.195	34.606	27.663	43.9	2.473	1800	2.264	34.595	27.648	45.3	2.625	1800	2.264	34.595	27.648	45.3	2.625
1900	2.100	34.614	27.677	42.6	2.526	1900	2.153	34.606	27.666	43.6	2.679	1900	2.153	34.606	27.666	43.6	2.679
2000	1.962	34.627	27.696	40.7	2.576	2000	2.040	34.616	27.681	42.1	2.731	2000	2.040	34.616	27.681	42.1	2.731
2100	1.947	34.632	27.703	40.1	2.625	2100	1.920	34.623	27.695	40.9	2.781	2100	1.920	34.623	27.695	40.9	2.781
2200	1.900	34.637	27.711	39.4	2.674	2200	1.762	34.630	27.705	39.9	2.831	2200	1.762	34.630	27.705	39.9	2.831
2300	1.841	34.642	27.719	38.6	2.722	2300	1.848	34.634	27.712	39.2	2.879	2300	1.848	34.634	27.712	39.2	2.879
2400	1.800	34.647	27.727	37.9	2.770	2400	1.804	34.641	27.721	38.4	2.928	2400	1.804	34.641	27.721	38.4	2.928
2500	1.776	34.650	27.731	37.5	2.817	2500	1.760	34.645	27.728	37.7	2.975	2500	1.760	34.645	27.728	37.7	2.975
2600	1.733	34.654	27.737	36.9	2.864	2600	1.734	34.649	27.733	37.2	3.022	2600	1.734	34.649	27.733	37.2	3.022
2700	1.713	34.655	27.739	36.6	2.910	2700	1.702	34.654	27.739	36.6	3.069	2700	1.702	34.654	27.739	36.6	3.069
2800	1.686	34.658	27.744	36.2	2.957	2800	1.678	34.656	27.743	36.3	3.115	2800	1.678	34.656	27.743	36.3	3.115
2900	1.655	34.660	27.748	35.9	3.003	2900	1.656	34.661	27.749	35.8	3.162	2900	1.656	34.661	27.749	35.8	3.162
3000	1.636	34.664	27.752	35.4	3.049	3000	1.641	34.664	27.752	35.5	3.208	3000	1.641	34.664	27.752	35.5	3.208
3100	1.617	34.667	27.756	35.0	3.095	3100	1.610	34.667	27.757	35.0	3.253	3100	1.610	34.667	27.757	35.0	3.253
3200	1.600	34.669	27.759	34.8	3.140	3200	1.588	34.670	27.761	34.6	3.299	3200	1.588	34.670	27.761	34.6	3.299
3300	1.586	34.672	27.763	34.5	3.186	3300	1.571	34.673	27.764	34.3	3.344	3300	1.571	34.673	27.764	34.3	3.344
3400	1.580	34.674	27.765	34.3	3.231	3400	1.551	34.675	27.768	34.0	3.389	3400	1.551	34.675	27.768	34.0	3.389
3500	1.568	34.675	27.766	34.1	3.277	3500	1.533	34.677	27.770	33.7	3.434	3500	1.533	34.677	27.770	33.7	3.434
3600	1.552	34.678	27.770	33.8	3.322	3600	1.525	34.679	27.771	33.5	3.479	3600	1.525	34.679	27.771	33.5	3.479
3700	1.541	34.680	27.772	33.5	3.368	3700	1.517	34.681	27.771	33.3	3.524	3700	1.517	34.681	27.771	33.3	3.524
3800	1.519	34.682	27.775	33.2	3.413	3800	1.506	34.683	27.777	33.1	3.569	3800	1.506	34.683	27.777	33.1	3.569
3900	1.519	34.684	27.777	33.1	3.458	3900	1.506	34.684	27.778	33.0	3.614	3900	1.506	34.684	27.778	33.0	3.614
4000	1.529	34.684	27.776	33.2	3.504	4000	1.511	34.685	27.778	32.4	3.659	4000	1.511	34.685	27.778	32.4	3.659
4100	1.534	34.685	27.777	33.1	3.550	4100	1.515	34.686	27.779	32.9	3.705	4100	1.515	34.686	27.779	32.9	3.705
4200	1.541	34.685	27.776	33.2	3.596	4200	1.523	34.687	27.779	32.0	3.750	4200	1.523	34.687	27.779	32.0	3.750
4300	1.550	34.686	27.776	33.2	3.643	4300	1.531	34.687	27.779	32.9	3.797	4300	1.531	34.687	27.779	32.9	3.797
4400	1.559	34.686	27.776	33.2	3.690	4400	1.542	34.688	27.779	32.9	3.843	4400	1.542	34.688	27.779	32.9	3.843
						4450	1.548	34.688	27.779	33.0	3.870	4450	1.548	34			

RV THOMAS WASHINGTON

INDOPAC LEG III

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	LATITUDE	LONGITUDE	MO/DAY/YR	MESSENGER	TIME	FOTOM	WIND	SPEED	WEATHER	DOMINANT WAVES					
	22 31.8N	141 11.2E	6/16/76	0549 0810	GMT	4032M	100	3kt	1	180 5 4					
Z	T	S	U2	P04	S103	N02	N03	DT	Z	T	S	U2	S103	DT	CO
0	28.10	34.857	4.52	0.04	1.	0.00	0.3	556.7	0	28.10	34.857	4.52	22.276	556.7	0.000
10	27.68	34.838	3.35U	0.00	1.	0.00	0.3	544.9	10	27.68	34.838	4.55	22.599	544.9	0.000
20	27.15	34.791	3.15U	0.07	1.	0.00	0.3	532.0	20	27.15	34.791	4.58	22.534	532.0	0.109
31	26.57	34.733	3.58U	0.11	1.	0.00	0.3	516.5	30	26.62	34.739	4.62	22.662	519.7	0.162
51	25.68	34.696	4.69	0.01	1.	0.00	0.3	494.6	50	25.71	34.697	4.69	22.915	495.6	0.264
72	25.41	34.687	4.77	0.02	1.	0.00	0.3	487.3	75	25.59	34.687	4.77	23.008	486.7	0.387
101	24.90	34.722	4.76	0.03	1.	0.00	0.3	469.9	100	24.93	34.719	4.76	23.172	471.0	0.508
122	23.86	34.850	4.68	0.07	1.	0.00	0.3	431.1	125	23.70	34.857	4.67	23.643	426.0	0.621
167	21.59	34.889	4.52	0.12	2.	0.00	0.8	366.4	150	22.42	34.893	4.58	24.040	388.2	0.724
232	19.26	34.872	4.37	0.23	4.	0.00	2.7	308.5	200	20.32	34.892	4.42	24.613	333.5	0.907
315	18.65	34.748	4.69	0.37	6.	0.00	5.8	256.5	250	18.64	34.849	4.43	25.016	295.2	1.068
402	14.42	34.585	4.63	0.67	12.	0.00	10.7	220.9	300	17.04	34.772	4.63	25.349	263.5	1.213
470	12.61	34.447	4.27	1.01	19.	0.00	14.8	195.8	400	14.47	34.590	4.63	25.790	221.6	1.466
570	9.63	34.245	3.71	1.52	35.	0.00	22.9	159.3	500	11.71	34.380	4.12	26.182	184.3	1.680
641	7.84	34.161	3.16	1.96	50.	0.14	28.5	138.9	600	8.83	34.203	3.50	26.541	150.2	1.859
696A	6.75	34.148	2.59	2.19	65.	0.00	30.9	125.3	700	6.68	34.153	2.56	26.816	124.1	2.007
724	6.35	34.173	2.36	2.46	71.	0.00	35.5	118.4	800	5.74	34.213	1.81	26.984	108.2	2.135
745A	6.29	34.179	2.19	2.42	73.	0.00	34.1	117.2	1000	4.02	34.373	1.43	27.307	77.6	2.338
847A	5.15	34.253	1.60	2.74	94.	0.00	38.2	96.3	1200	3.26	34.467	1.57	27.457	63.3	2.497
946A	4.34	34.332	1.42	2.87	112.	0.00	40.7	83.8	1500	2.67	34.538	1.91	27.568	52.9	2.698
1096A	3.60	34.431	1.45	2.88	127.	0.00	41.5	69.1	1750	2.33	34.586	2.28	27.635	46.6	2.844
1246A	3.15	34.478	1.63	2.89	137.	0.00	42.1	61.5	2000	2.09	34.614	2.54	27.676	42.5	2.979
1397A	2.861	34.514	1.75	2.90	143.	0.00	41.6	56.3	2250	1.91	34.635	2.74	27.708	39.6	3.104
1596A	2.514	34.558	2.08	2.88	147.	0.00	41.1	50.1	2500	1.78	34.655	2.93	27.732	37.4	3.224
1898A	2.186	34.605	2.44	2.76	149.	0.00	40.4	43.9	2750	1.72	34.659	3.04	27.742	36.4	3.341
2199A	1.944	34.631	2.70	2.68	151.	0.00	39.6	40.1	3000	1.65	34.667	3.16	27.753	35.4	3.457
2498A	1.783	34.652	2.93	2.64	152.	0.00	39.0	37.4	3250	1.60	34.674	3.32	27.762	34.5	3.571
2798A	1.708	34.660	3.06	2.63	152.	0.00	38.5	36.2	3500	1.55	34.680	3.48	27.772	33.6	3.684
3100A	1.627	34.669	3.22	2.60	151.	0.00	38.0	35.0	3750	1.50	34.687	3.59	27.781	32.7	3.796
3401A	1.574	34.677	3.43	2.58	150.	0.00	38.1	34.0	4000	1.49	34.692	3.65	27.785	32.3	3.907
3703A	1.497	34.686	3.57	2.54	148.		37.5	32.8							
4008A	1.486	34.691	3.65	2.51	147.	0.00	37.7	32.3							

RV THOMAS WASHINGTON

INDOPAC LEG III

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LATITUDE		LONGITUDE	MO/DAY/YR	MESSENGER	TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES					
19 31.1N										140 06.2E		6/17/76		0404 GMT	
Z	T	S	U2	P04	S103	N02	N03	DT	Z	T	S	U2	S103	DT	CO
0	29.15	34.627	4.61	0.10	2.	0.00	0.2	606.5	0	29.15	34.627	4.61	21.755	606.5	0.000
50	25.85	34.694	4.98	0.07	2.	0.00	0.2	499.8	10	28.55	34.641	4.71	21.964	586.5	0.060
100	21.77	34.820	4.97	0.08	2.	0.00	0.2	376.2	20	27.92	34.653	4.80	22.180	565.8	0.117
151	19.66	34.838	4.61	0.19	3.	0.01	1.7	320.8	30	27.26	34.666	4.88	22.403	544.5	0.173
200	18.43	34.801	4.66	0.21	4.	0.00	3.3	293.6	50	25.85	34.694	4.98	22.871	499.8	0.278
251	17.07	34.772	4.64	0.40	5.	0.00	5.3	264.2	75	23.73	34.750	4.98	23.552	434.7	0.395
326	15.52	34.665	4.48	0.59	9.	0.00	7.8	238.0	100	21.77	34.820	4.97	24.166	376.2	0.497
401	13.02	34.478	4.12	0.98	18.	0.00	13.8	201.2	125	20.55	34.843	4.79	24.515	342.8	0.588
551	8.15	34.204	2.80	2.02	49.	0.01	27.3	140.1	150	19.69	34.839	4.62	24.740	321.4	0.672
701	5.75	34.205	1.92	2.59	81.	0.00	36.1	108.8	200	18.43	34.801	4.66	25.032	293.6	0.829
900	4.33	34.422	1.53	2.93	110.	0.00	41.0	76.9	250	17.10	34.773	4.64	25.336	264.7	0.972
1100	3.51	34.516	1.89	2.90	127.	0.00	41.0	61.9	300	16.08	34.714	4.56	25.528	246.5	1.105
1349	2.85	34.567	2.16	2.84	139.	0.00	40.6	52.2	400	13.06	34.481	4.13	25.999	201.7	1.339
1597	2.50	34.595	2.38	2.85	145.	0.00	40.7	47.2	500	9.66	34.266	3.27	26.456	158.3	1.529
1896	2.136	34.621	2.56	2.84	150.	0.03	40.2	42.3	600	7.17	34.187	2.46	26.777	127.9	1.682
2195	1.905	34.639	2.79	2.73	152.	0.00	39.8	39.2	700	5.76	34.206	1.92	26.977	108.9	1.809
2495	1.770	34.654	2.98	2.71	153.	0.00	39.6	37.1	800	4.88	34.310	1.73	27.164	91.2	1.918
2793	1.669	34.664	3.16	2.69	153.	0.00	38.6	35.6	1000	3.87	34.481	1.67	27.409	67.9	2.095
3089	1.588	34.674	3.31	2.54	152.	0.00	38.6	34.3	1200	3.20	34.543	2.01	27.523	57.1	2.237
3393	1.520	34.684	3.51	2.55	150.	0.00	38.0	33.1	1500	2.62	34.587	2.30	27.611	48.8	2.422
3694	1.500	34.686	3.59	2.52	149.	0.00	37.9	32.8	1750	2.30	34.608	2.47	27.654	44.5	2.561
3995	1.497	34.691	3.64	2.54	148.	0.00	38.1	32.4	2000	2.04	34.627	2.64	27.691	41.1	2.691
4347	1.508	34.691	3.73	2.57	146.	0.00	37.6	32.5	2250	1.88	34.642	2.83	27.716	38.8	2.814
4700	1.546	34.692	3.75	2.26U	147.	0.00	37.8	32.7	2500	1.77	34.655	2.98	27.735	37.1	2.932
									2750	1.68	34.663	3.14	27.748	35.8	3.048
									3000	1.61	34.672	3.26	27.760	34.7	3.161
									3250	1.55	34.680	3.42	27.771	33.6	3.273
									3500	1.51	34.685	3.55	27.778	32.9	3.383
									3750	1.50	34.688	3.60	27.781	32.7	3.493
									4000	1.50	34.692	3.64	27.784	32.4	3.605
									4250	1.50	34.692	3.71	27.784	32.5	3.718
									4500	1.52	34.692	3.74	27.783	32.5	3.832

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LATITUDE	LONGITUDE	MO/DAT/YR	START TIME	LATITUDE	LONGITUDE	MO/DAT/YR	START TIME	LATITUDE	LONGITUDE	MO/DAT/YR	START TIME	LATITUDE	LONGITUDE	MO/DAT/YR	START TIME	LATITUDE	LONGITUDE
22 31.8N	141 11.2E	06/16/76	0434 GMT	19 31.1N	140 06.2E	06/17/76	0732 GMT										
Z	T	S	SIGMA T	DT	DD	Z	T	S	SIGMA T	DT	DD	Z	T	S	SIGMA T	DT	DD
0	28.05	34.80	22.250	559.2	0.000	0	28.94	34.64	21.835	598.8	0.000	0	28.94	34.64	21.835	598.8	0.000
10	27.78	34.82	22.353	549.3	0.055	10	28.82	34.64	21.875	595.0	0.050	10	28.82	34.64	21.875	595.0	0.050
20	27.32	34.83	22.509	534.4	0.110	20	28.56	34.62	21.947	588.2	0.110	20	28.56	34.62	21.947	588.2	0.110
30	27.04	34.80	22.582	527.3	0.163	30	28.24	34.60	22.097	573.5	0.167	30	28.24	34.60	22.097	573.5	0.167
40	26.52	34.76	22.711	515.0	0.215	40	27.56	34.67	22.311	553.3	0.234	40	27.56	34.67	22.311	553.3	0.234
50	25.92	34.72	22.869	500.0	0.266	50	26.56	34.62	22.576	519.5	0.287	50	26.56	34.62	22.576	519.5	0.287
75	25.51	34.70	22.980	489.3	0.340	75	25.92	34.75	23.527	457.1	0.407	75	25.92	34.75	23.527	457.1	0.407
100	24.98	34.72	23.157	472.4	0.411	100	21.83	34.60	24.134	379.1	0.510	100	21.83	34.60	24.134	379.1	0.510
125	23.85	34.85	23.593	430.8	0.625	125	20.50	34.62	24.517	343.2	0.602	125	20.50	34.62	24.517	343.2	0.602
150	22.26	34.87	24.066	395.6	0.769	150	19.75	34.63	24.717	323.7	0.656	150	19.75	34.63	24.717	323.7	0.656
175	21.32	34.89	24.343	358.3	0.823	175	19.03	34.62	24.895	306.7	0.766	175	19.03	34.62	24.895	306.7	0.766
200	20.06	34.86	24.659	329.2	0.911	200	18.54	34.60	25.004	296.1	0.843	200	18.54	34.60	25.004	296.1	0.843
225	19.10	34.85	24.900	306.2	0.992	225	17.83	34.78	25.168	281.0	0.917	225	17.83	34.78	25.168	281.0	0.917
250	18.19	34.81	25.095	287.3	1.069	250	17.17	34.76	25.300	267.4	0.988	250	17.17	34.76	25.300	267.4	0.988
275	17.49	34.78	25.247	272.2	1.141	275	16.64	34.73	25.411	257.6	1.055	275	16.64	34.73	25.411	257.6	1.055
300	16.93	34.76	25.366	261.9	1.210	300	15.97	34.69	25.535	245.7	1.121	300	15.97	34.69	25.535	245.7	1.121
350	15.73	34.68	25.582	241.4	1.341	350	14.87	34.61	25.710	228.3	1.244	350	14.87	34.61	25.710	228.3	1.244
400	14.48	34.57	25.772	223.2	1.462	400	13.24	34.47	25.954	206.0	1.358	400	13.24	34.47	25.954	206.0	1.358
450	13.14	34.47	25.974	204.1	1.575	450	11.40	34.36	26.224	180.3	1.460	450	11.40	34.36	26.224	180.3	1.460
500	11.66	34.36	26.176	184.9	1.678	500	8.73	34.26	26.556	148.9	1.547	500	8.73	34.26	26.556	148.9	1.547
550	9.94	34.25	26.397	163.9	1.771	550	7.83	34.17	26.869	139.1	1.623	550	7.83	34.17	26.869	139.1	1.623
600	8.76	34.19	26.543	150.1	1.855	600	6.84	34.15	26.786	127.0	1.694	600	6.84	34.15	26.786	127.0	1.694
650	7.76	34.15	26.664	136.7	1.933	650	6.30	34.18	26.444	117.3	1.760	650	6.30	34.18	26.444	117.3	1.760
700	6.86	34.13	26.775	128.1	2.005	700	5.59	34.22	27.010	105.4	1.820	700	5.59	34.22	27.010	105.4	1.820
750	6.33	34.16	26.869	119.1	2.072	750	5.00	34.30	27.134	94.1	1.874	750	5.00	34.30	27.134	94.1	1.874
800	5.83	34.19	26.957	110.9	2.135	800	4.72	34.35	27.214	85.4	1.923	800	4.72	34.35	27.214	85.4	1.923
850	5.13	34.24	27.080	99.1	2.192	850	4.44	34.39	27.277	80.5	1.969	850	4.44	34.39	27.277	80.5	1.969
900	4.72	34.30	27.175	90.2	2.244	900	4.23	34.42	27.323	76.1	2.013	900	4.23	34.42	27.323	76.1	2.013
950	4.31	34.32	27.235	84.4	2.292	950	3.95	34.45	27.374	71.0	2.054	950	3.95	34.45	27.374	71.0	2.054
1000	3.99	34.36	27.301	78.2	2.335	1000	3.77	34.48	27.410	67.0	2.092	1000	3.77	34.48	27.410	67.0	2.092
1100	3.56	34.42	27.392	69.0	2.420	1100	3.48	34.50	27.467	62.5	2.166	1100	3.48	34.50	27.467	62.5	2.166
1200	3.29	34.46	27.450	64.1	2.496	1200	3.16	34.53	27.510	57.7	2.234	1200	3.16	34.53	27.510	57.7	2.234
1300	3.01	34.49	27.500	59.4	2.566	1300	2.91	34.55	27.556	54.0	2.290	1300	2.91	34.55	27.556	54.0	2.290
1400	2.82	34.51	27.533	56.2	2.633	1400	2.75	34.67	27.587	51.1	2.340	1400	2.75	34.67	27.587	51.1	2.340
1500	2.63	34.54	27.573	52.4	2.696	1500	2.54	34.58	27.609	49.0	2.419	1500	2.54	34.58	27.609	49.0	2.419
1600	2.510	34.58	27.598	50.0	2.756	1600	2.441	34.593	27.630	47.0	2.476	1600	2.441	34.593	27.630	47.0	2.476
1700	2.384	34.575	27.622	47.6	2.814	1700	2.310	34.605	27.652	44.9	2.530	1700	2.310	34.605	27.652	44.9	2.530
1800	2.258	34.594	27.648	45.3	2.870	1800	2.202	34.615	27.669	43.2	2.583	1800	2.202	34.615	27.669	43.2	2.583
1900	2.172	34.605	27.664	43.6	2.923	1900	2.112	34.623	27.683	42.0	2.635	1900	2.112	34.623	27.683	42.0	2.635
2000	2.105	34.615	27.677	42.0	2.976	2000	2.053	34.628	27.692	41.2	2.685	2000	2.053	34.628	27.692	41.2	2.685
2100	2.016	34.627	27.694	41.0	3.027	2100	1.967	34.635	27.704	40.0	2.736	2100	1.967	34.635	27.704	40.0	2.736
2200	1.951	34.630	27.701	40.3	3.077	2200	1.909	34.641	27.713	39.1	2.784	2200	1.909	34.641	27.713	39.1	2.784
2300	1.886	34.637	27.712	39.3	3.126	2300	1.850	34.645	27.720	38.4	2.832	2300	1.850	34.645	27.720	38.4	2.832
2400	1.831	34.643	27.721	38.4	3.174	2400	1.807	34.650	27.726	37.7	2.879	2400	1.807	34.650	27.726	37.7	2.879
2500	1.761	34.647	27.728	37.7	3.222	2500	1.776	34.653	27.733	37.3	2.926	2500	1.776	34.653	27.733	37.3	2.926
2600	1.759	34.650	27.732	37.3	3.269	2600	1.744	34.655	27.736	37.0	2.973	2600	1.744	34.655	27.736	37.0	2.973
2700	1.734	34.651	27.735	37.1	3.316	2700	1.729	34.657	27.740	36.6	3.020	2700	1.729	34.657	27.740	36.6	3.020
2800	1.710	34.654	27.739	36.7	3.364	2800	1.679	34.662	27.744	36.4	3.066	2800	1.679	34.662	27.744	36.4	3.066
2900	1.674	34.659	27.746	36.1	3.410	2900	1.657	34.666	27.752	35.4	3.112	2900	1.657	34.666	27.752	35.4	3.112
3000	1.658	34.664	27.751	35.6	3.456	3000	1.620	34.670	27.754	34.8	3.158	3000	1.620	34.670	27.754	34.8	3.158
3100	1.628	34.667	27.755	35.1	3.502	3100	1.545	34.674	27.764	34.4	3.203	3100	1.545	34.674	27.764	34.4	3.203
3200	1.602	34.671	27.761	34.6	3.548	3200	1.572	34.677	27.768	34.0	3.247	3200	1.572	34.677	27.768	34.0	3.247
3300	1.578	34.673	27.764	34.3	3.594	3300	1.532	34.680	27.773	33.5	3.292	3300	1.532	34.680	27.773	33.5	3.292
3400	1.569	34.676	27.767	34.0	3.639	3400	1.526	34.682	27.775	33.3	3.336	3400	1.526	34.682	27.775	33.3	3.336
3500	1.550	34.680	27.772	33.6	3.684	3500	1.523	34.683	27.776	33.2	3.380	3500	1.523	34.683	27.776	33.2	3.380
3600	1.522	34.686	27.778	32.9	3.729	3600	1.515	34.686	27.779	32.9	3.425	3600	1.515	34.686	27.779	32.9	3.425
3700	1.497	34.688	27.782	32.6	3.773	3700	1.509	34.687	27.780	32.8	3.467	3700	1.509	34.687	27.780	32.8	3.467
3800	1.487	34.690	27.784	32.4	3.817	3800	1.502	34.690	27.783	32.4	3.513	3800	1.502	34.690	27.783	32.4	3.513
3900	1.483	34.689	27.784	32.5	3.861	3900	1.500	34.691	27.784	32.4	3.558	3900	1.500	34.691	27.784	32.4	3.558
4000	1.466	34.690	27.784	32.4	3.906	4000	1.502	34.691	27.784	32.4	3.602	4000	1.502	34.691	27.784	32.4	3.602
						4100	1.508	34.692	27.784	32.4	3.647	4100	1.508	34.692	27.784	32.4	3.647
						4200	1.513	34.692	27.784	32.4	3.693	4200	1.513	34.692	27.784	32.4	3.693
						4300	1.518	34.693	27.784	32.4	3.738	4300	1.518	34.693	27.784	32.4	3.738
						4400	1.525	34.694	27.785	32.4	3.784	4400	1.525	34.694	27.785	32.4	3.784
						4500	1.532	34.695	27.785	32.3	3.830	4500	1.532	34.695	27.785	32.3	3.830
						4600	1.538	34.695	27.784	32.4	3.877	4600	1.538	34.695			

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INDOFAC LEG III

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LATITUDE 18 26.2N			LONGITUDE 141 14.0E			MO/DAY/YR 6/17/76			MESSENGER 1616 GMT			TIME 4656H			WIND 120			SPEED 7KT			WEATHER 1			CURRENT WAVES 120 3 6		
Z	T	S	Q2	P04	S103	U02	N03	ET	Z	T	S	Q2	S10T	DT	DD											
0	28.67	34.724	4.63	0.05	1.	0.00	0.0	584.2	0	28.67	34.724	4.63	21.788	584.2	0.000											
50	27.52	34.793	4.77	0.02	1.	0.00	0.0	583.2	10	28.45	34.744	4.66	22.078	575.6	0.058											
100	26.19	34.738	4.55	0.11	2.	0.00	0.0	566.7	20	28.23	34.747	4.69	22.165	567.3	0.115											
152	24.35	34.936	4.40	0.11	2.	0.14	0.2	438.7	30	28.00	34.781	4.71	22.251	559.1	0.172											
201	20.91	34.979	4.07	0.28	3.	0.01	2.7	342.2	50	27.52	34.793	4.77	22.417	543.2	0.282											
251	17.89	34.819	4.47	0.29	5.	0.00	4.4	279.6	75	26.89	34.754	4.68	22.592	526.4	0.417											
326	15.60	34.672	4.56	0.48	8.	0.00	7.1	239.2	100	26.19	34.734	4.55	22.758	506.7	0.547											
401	12.50	34.424	4.08	1.03	18.	0.12	14.2	195.4	125	25.45	34.630	4.49	23.097	470.2	0.671											
552	7.90	34.267	2.16	2.19	53.	0.00	31.5	131.9	150	24.44	34.927	4.41	23.476	442.0	0.787											
702	6.10	34.325	1.50	2.64	78.	0.00	38.2	104.0	200	20.99	34.979	4.07	24.501	344.2	0.987											
827	5.46	34.436	1.58	2.76	88.	0.00	39.4	86.1	250	17.94	34.823	4.46	25.170	280.5	1.147											
1003	4.45	34.500	1.74	2.84	106.	0.00	40.7	72.5	300	16.29	34.731	4.53	25.494	249.7	1.284											
1253	3.29	34.548	2.08	2.76	132.	0.00	40.3	57.4	400	12.54	34.424	4.09	26.059	196.0	1.517											
1504	2.72	34.577	2.21	2.76	142.	0.00	41.5	50.3	500	9.20	34.283	2.62	26.345	149.9	1.699											
1804	2.356	34.606	2.37	2.70	147.	0.00	40.4	45.2	600	7.11	34.276	1.84	26.854	120.5	1.844											
2104	2.031	34.632	2.64	2.69	152.	0.03	40.4	40.7	700	6.11	34.325	1.50	27.026	104.2	1.966											
2405	1.835	34.648	2.87	2.63	153.	0.00	39.9	38.1	800	5.67	34.413	1.56	27.165	91.1	2.074											
2705	1.717	34.661	3.06	2.55	153.	0.00	39.5	36.2	1000	4.47	34.500	1.74	27.360	72.5	2.257											
3005	1.643	34.670	3.34	2.56	153.	0.00	38.9	35.0	1200	3.50	34.541	2.01	27.494	59.9	2.409											
3307	1.556	34.679	3.39	2.49	151.	0.00	38.9	33.7	1500	2.73	34.574	2.21	27.594	50.4	2.603											
3608	1.502	34.684	3.54	2.37	150.	0.00	38.5	33.0	1750	2.41	34.603	2.34	27.641	45.9	2.747											
3909	1.490	34.689	3.65	2.38	149.	0.00	38.5	32.5	2000	2.13	34.623	2.54	27.680	42.1	2.880											
4212	1.492	34.692	3.70	2.41	147.	0.00	38.2	32.3	2250	1.92	34.639	2.76	27.710	39.3	3.006											
4514	1.518	34.692	3.76	2.40	147.	0.00	38.2	32.5	2500	1.79	34.652	2.93	27.731	37.4	3.126											
									2750	1.71	34.663	3.08	27.746	36.0	3.242											
									3000	1.64	34.671	3.22	27.757	35.0	3.357											
									3250	1.57	34.674	3.36	27.768	33.9	3.470											
									3500	1.52	34.683	3.49	27.775	33.2	3.581											
									3750	1.50	34.687	3.60	27.781	32.7	3.692											
									4000	1.49	34.691	3.67	27.784	32.4	3.803											
									4250	1.49	34.693	3.71	27.785	32.3	3.915											
									4500	1.52	34.693	3.76	27.784	32.5	4.030											

RV THOMAS WASHINGTON

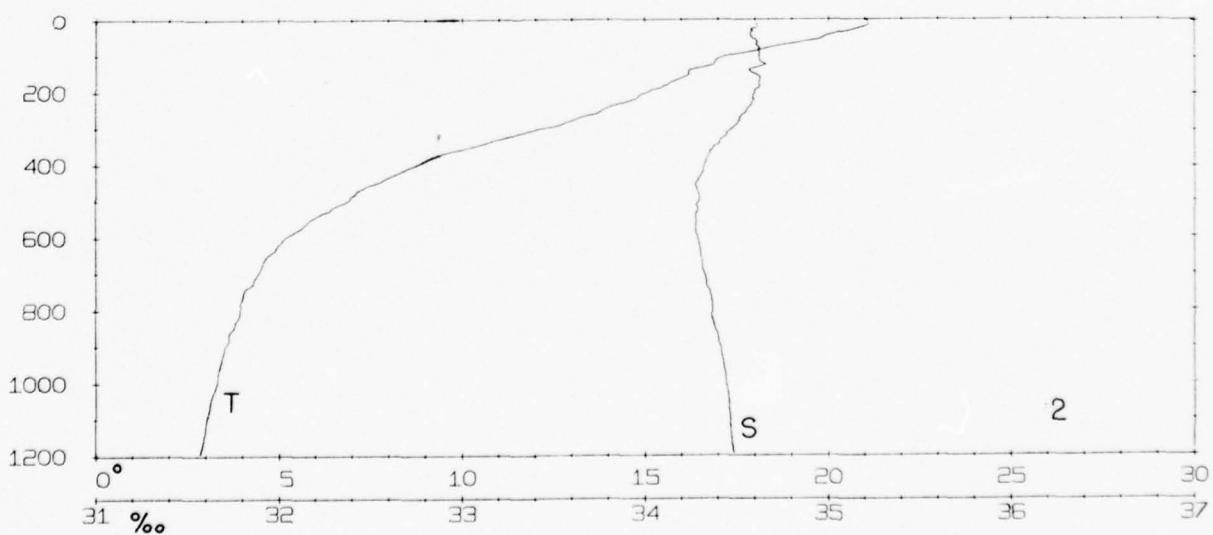
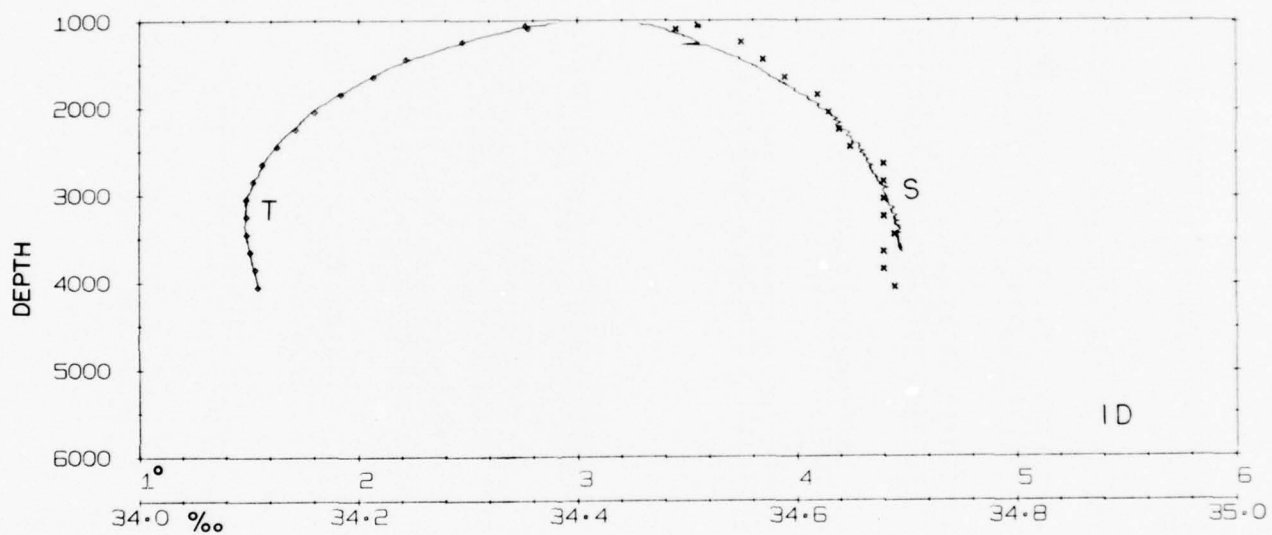
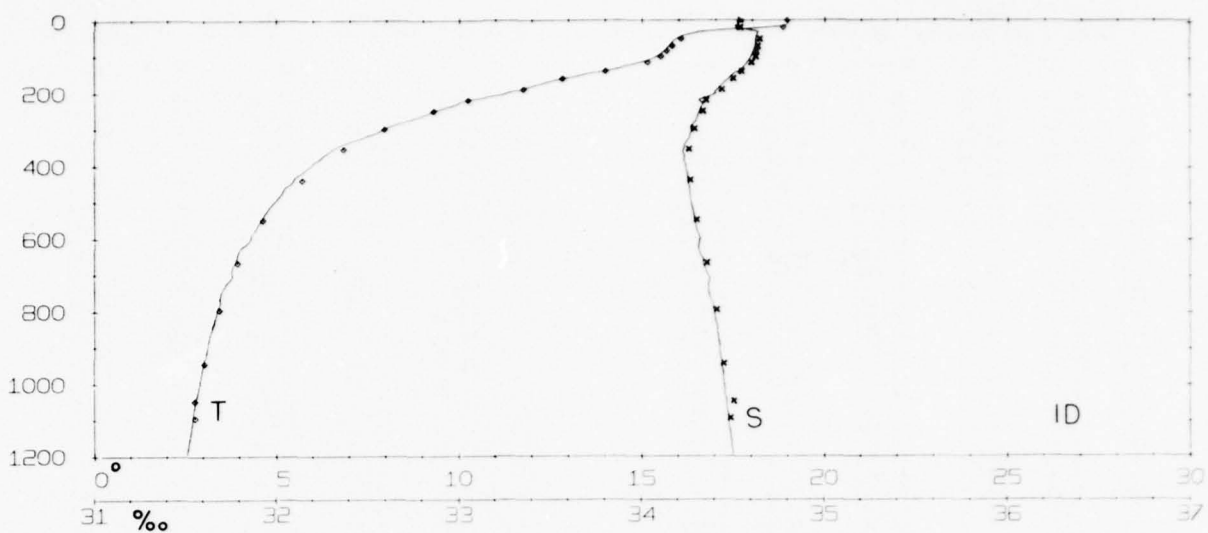
INDOFAC LEG III

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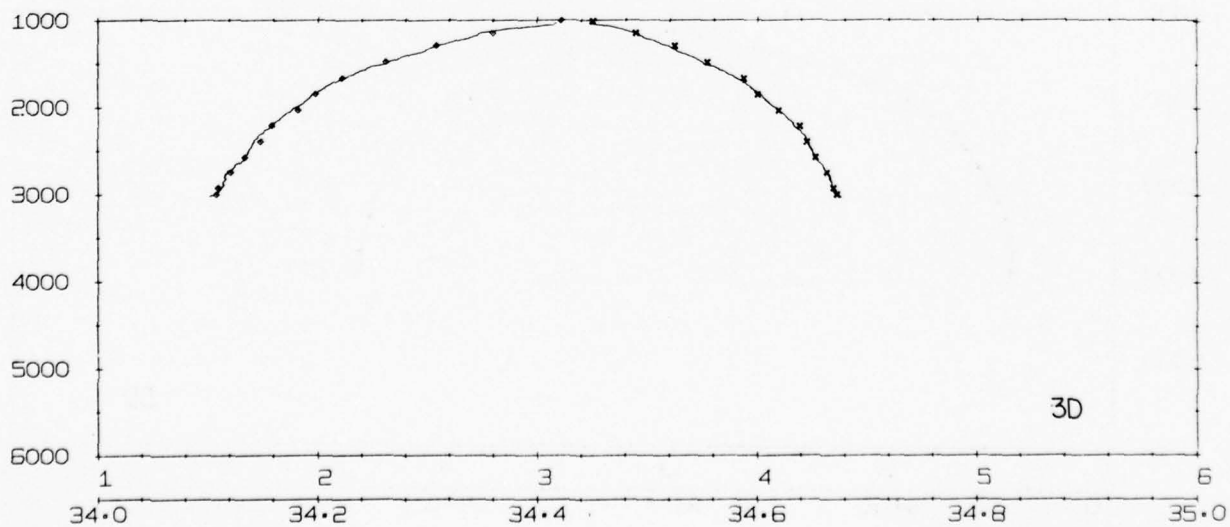
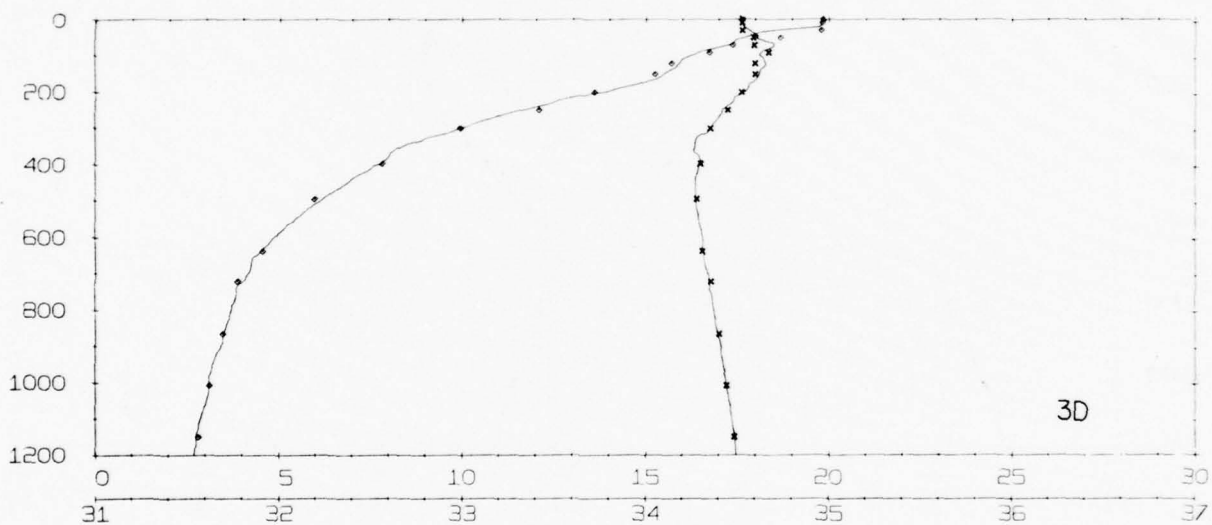
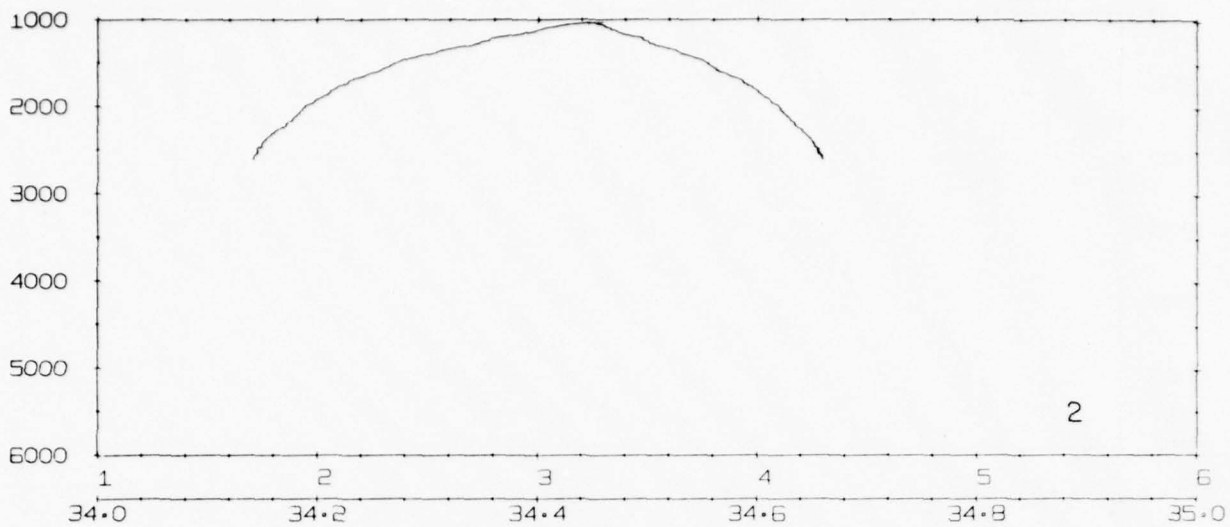
LATITUDE 17 21.3N			LONGITUDE 142 15.2E			MO/DAY/YR 6/18/76			MESSENGER 0312 GMT			TIME 4315M			WIND 120			SPEED 7KT			WEATHER 1			CURRENT WAVES 120 4 5		
Z	T	S	Q2	P04	S103	U02	N03	DT	Z	T	S	Q2	S10T	DT	DL											
0	28.80	34.857	4.66	0.10	1.	0.00	0.0	578.8	0	28.80	34.857	4.66	22.045	578.8	0.000											
50	27.23	34.855	4.76	0.05	1.	0.00	0.0	529.8	10	28.44	34.851	4.69	22.158	567.9	0.057											
100	26.18	34.905	4.76	0.05	1.	0.00	0.0	494.4	20	28.11	34.844	4.71	22.266	557.6	0.114											
152	24.29	34.910	4.55	0.05	1.	0.01	0.3	438.3	30	27.80	34.844	4.73	22.369	547.8	0.169											
202	21.04	34.967	4.32	0.12	2.	0.00	1.5	386.4	50	27.23	34.855	4.76	22.557	529.8	0.277											
252	18.01	34.817	4.62	0.27	3.	0.00	4.0	282.6	75	26.72	34.880	4.76	22.739	512.4	0.408											
328	15.63	34.682	4.62	0.50	6.	0.00	6.5	239.1	100	26.18	34.905	4.76	22.927	494.4	0.535											
403	12.93	34.452	4.22	0.94	16.	0.00	12.7	201.4	125	25.42	34.904	4.67	23.167	471.5	0.657											
553	8.08	34.270	2.07	2.33	49.	0.00	30.7	134.2	150	24.34	34.909	4.56	23.480	441.6	0.772											
703	6.02	34.347	1.54	2.79	60.	0.00	38.0	101.4	200	21.18	34.965	4.32	24.438	350.2	0.973											
829	5.19	34.454	1.71	2.86	90.	0.00	39.5	83.7	250	18.12	34.824	4.61	25.127	284.6	1.136											
1003	4.43	34.514	1.94	2.90	103.	0.00	39.7	71.1	300	16.37	34.740	4.42	25.480	251.0	1.274											
1253	3.53	34.553	2.03	2.83	121.	0.00	40.3	59.3	400	13.04	34.461	4.24	25.987	202.9	1.511											
1502	2.95	34.579	2.18	2.87	134.	0.00	41.4	52.1	500	9.59	34.291	2.84	26.487	155.4	1.700											
1751	2.510	34.603	2.33	2.81	142.	0.00	40.4	46.6	600	7.22	34.284	1.90	26.845	121.4	1.849											
2001	2.157	34.623	2.54	2.73	146.	0.00	40.1	42.3	700	6.04	34.346	1.55	27.052	101.6	1.970											
2251	1.959	34.640	2.76	2.73	151.	0.00	39.9	39.4	800	5.33	34.432	1.65	27.207	87.1	2.074											
2502	1.768	34.655	2.92	2.71	153.	0.00	39.8	37.2	1000	4.44	34.514	1.94	27.375	71.2	2.252											
2751	1.708	34.661	3.06	2.59	152.	0.00	39.3	36.2	1200	3.70	34.544	2.02	27.479	61.3	2.404											
3004	1.658	34.669	3.17	2.54	152.	0.00	39.4	35.2	1500	2.95	34.580	2.18	27.575	52.2	2.605											
3255	1.594	34.673	3.33	2.58	151.	0.00	38.9	34.4	1750	2.61	34.604	2.33	27.634	46.7	2.753											
3508	1.536	34.682	3.49	2.53	149.	0.00	39.1	33.4	2000	2.16	34.624	2.54	27.679	42.4	2.889											
3761	1.502	34.686	3.62	2.53	147.	0.00	38.9	32.3	2250	1.94	34.641	2.76	27.710	39.4	3.015											
4005	1.486	34.690	3.72	2.53	147.	0.00	38.6	32.4	2500	1.79	34.656	2.92	27.734	37.2	3.135											
									2750	1.71	34.662	3.06	27.745	36.2	3.251											
									3000	1.66	34.670	3.17	27.755	35.2	3.366											
									3250	1.60	34.674	3.33	27.763	34.5	3.480											
									3500	1.54	34.682	3.49	27.774	33.4	3.593											
									3750	1.50	34.686	3.61	27.780	32.8	3.704											
									4000	1.49	34.690	3.72	27.784	32.4	3.816											

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LATITUDE		LONGITUDE		MO/DAY/YR		START TIME		LATITUDE		LONGITUDE		MO/DAY/YR		START TIME			
18 26.2N		141 14.0E		06/17/76		1451 GMT		17 21.5N		142 15.2E		06/18/76		0016 GMT			
Z	T	S	SIGMA T	DT	DU			Z	T	S	SIGMA T	DT	DU				
0	28.73	34.74	21.980	585.0	0.000			0	28.57	34.68	22.138	589.6	0.000				
10	28.63	34.75	22.021	581.1	0.056			10	28.44	34.68	22.181	585.7	0.057				
20	28.38	34.78	22.126	571.0	0.116			20	28.36	34.67	22.206	583.4	0.113				
30	28.15	34.76	22.202	563.6	0.173			30	28.33	34.68	22.217	582.4	0.170				
40	27.83	34.78	22.306	553.8	0.229			40	28.08	34.66	22.291	555.2	0.226				
50	27.55	34.79	22.405	544.3	0.284			50	27.65	34.66	22.325	542.4	0.281				
75	27.20	34.82	22.540	531.4	0.419			75	26.30	34.67	22.673	518.6	0.414				
100	26.17	34.77	22.828	503.6	0.549			100	26.31	34.61	22.490	497.9	0.542				
125	25.41	34.85	23.124	475.6	0.673			125	25.38	34.90	23.171	471.1	0.664				
150	24.04	34.97	23.628	427.5	0.787			150	24.27	34.92	23.522	437.1	0.779				
175	21.90	35.01	24.273	365.9	0.888			175	22.59	35.00	24.071	385.1	0.884				
200	20.48	34.95	24.616	333.3	0.977			200	21.00	34.97	24.491	345.2	0.977				
225	18.14	34.81	25.111	286.1	1.056			225	19.30	34.85	24.879	306.2	1.060				
250	17.29	34.78	25.295	268.6	1.127			250	18.08	34.82	25.134	284.0	1.126				
275	16.83	34.75	25.381	260.4	1.170			275	17.22	34.77	25.304	267.7	1.207				
300	16.33	34.72	25.475	251.5	1.202			300	16.28	34.72	25.487	250.4	1.274				
350	14.85	34.60	25.715	228.6	1.387			350	14.68	34.60	25.715	228.4	1.349				
400	13.14	34.46	25.966	204.6	1.500			400	12.94	34.64	25.991	202.7	1.512				
450	11.15	34.31	26.231	179.6	1.602			450	10.70	34.50	26.304	172.7	1.611				
500	9.40	34.25	26.467	155.4	1.690			500	8.97	34.27	26.579	147.4	1.696				
550	8.32	34.26	26.666	134.4	1.769			550	8.00	34.27	26.719	133.4	1.771				
600	7.34	34.28	26.826	123.2	1.839			600	7.12	34.26	26.841	121.8	1.859				
650	6.44	34.27	26.941	112.3	1.903			650	6.44	34.30	26.965	110.1	1.902				
700	6.15	34.32	27.018	105.0	1.962			700	6.07	34.32	27.029	104.0	1.960				
750	5.76	34.36	27.099	97.3	2.017			750	5.73	34.38	27.119	95.5	2.014				
800	5.05	34.41	27.224	85.5	2.067			800	5.40	34.42	27.191	84.6	2.066				
850	5.12	34.42	27.224	85.5	2.115			850	5.16	34.44	27.235	84.4	2.113				
900	4.89	34.46	27.282	80.0	2.161			900	4.92	34.46	27.279	80.3	2.160				
950	4.73	34.46	27.300	78.3	2.206			950	4.71	34.49	27.326	75.4	2.204				
1000	4.33	34.49	27.368	71.0	2.248			1000	4.53	34.51	27.352	72.4	2.246				
1100	3.88	34.51	27.431	65.9	2.327			1100	4.07	34.52	27.419	67.0	2.326				
1200	3.42	34.53	27.493	60.0	2.399			1200	3.73	34.53	27.462	62.9	2.401				
1300	3.12	34.55	27.537	55.6	2.466			1300	3.41	34.55	27.510	58.4	2.472				
1400	2.91	34.56	27.564	53.4	2.530			1400	3.18	34.56	27.540	55.6	2.539				
1500	2.68	34.58	27.601	49.8	2.591			1500	2.96	34.58	27.576	52.1	2.603				
1600	2.54	34.588	27.619	48.0	2.644			1600	2.74	34.584	27.597	50.2	2.664				
1700	2.435	34.599	27.637	46.3	2.705			1700	2.596	34.595	27.620	47.9	2.723				
1800	2.324	34.607	27.653	44.9	2.760			1800	2.442	34.607	27.643	45.8	2.779				
1900	2.220	34.616	27.668	43.4	2.814			1900	2.290	34.616	27.663	43.9	2.834				
2000	2.110	34.622	27.682	42.1	2.866			2000	2.167	34.621	27.677	42.6	2.887				
2100	2.011	34.632	27.698	40.6	2.916			2100	2.064	34.627	27.690	41.3	2.939				
2200	1.944	34.636	27.707	39.8	2.966			2200	1.971	34.637	27.705	39.9	2.989				
2300	1.885	34.641	27.715	38.9	3.015			2300	1.913	34.643	27.715	39.0	3.038				
2400	1.830	34.646	27.723	38.2	3.063			2400	1.866	34.651	27.724	37.9	3.086				
2500	1.786	34.649	27.729	37.6	3.110			2500	1.798	34.653	27.731	37.4	3.133				
2600	1.752	34.653	27.735	37.1	3.157			2600	1.764	34.656	27.734	36.9	3.180				
2700	1.717	34.656	27.740	36.6	3.204			2700	1.738	34.658	27.740	36.6	3.227				
2800	1.692	34.660	27.745	36.1	3.250			2800	1.711	34.664	27.747	35.9	3.274				
2900	1.665	34.664	27.750	35.6	3.297			2900	1.688	34.665	27.749	35.7	3.320				
3000	1.638	34.668	27.755	35.1	3.342			3000	1.665	34.666	27.750	35.5	3.366				
3100	1.616	34.670	27.759	34.6	3.388			3100	1.631	34.668	27.756	35.1	3.412				
3200	1.585	34.676	27.766	34.1	3.433			3200	1.599	34.674	27.763	34.4	3.457				
3300	1.568	34.678	27.769	33.9	3.478			3300	1.572	34.675	27.766	34.1	3.502				
3400	1.542	34.682	27.774	33.4	3.522			3400	1.549	34.676	27.768	33.9	3.547				
3500	1.520	34.685	27.778	33.0	3.567			3500	1.534	34.680	27.773	33.5	3.592				
3600	1.506	34.687	27.780	32.8	3.611			3600	1.518	34.681	27.776	33.3	3.637				
3700	1.493	34.688	27.782	32.6	3.655			3700	1.506	34.685	27.779	32.9	3.682				
3800	1.487	34.689	27.783	32.5	3.699			3800	1.495	34.687	27.781	32.7	3.726				
3900	1.487	34.689	27.783	32.5	3.743			3900	1.486	34.688	27.783	32.6	3.771				
4000	1.485	34.691	27.785	32.3	3.788			4000	1.481	34.691	27.785	32.3	3.815				
4100	1.469	34.691	27.785	32.3	3.833												
4200	1.492	34.691	27.785	32.4	3.878												
4300	1.502	34.691	27.784	32.4	3.923												
4400	1.508	34.691	27.783	32.5	3.969												
4500	1.518	34.692	27.784	32.5	4.015												

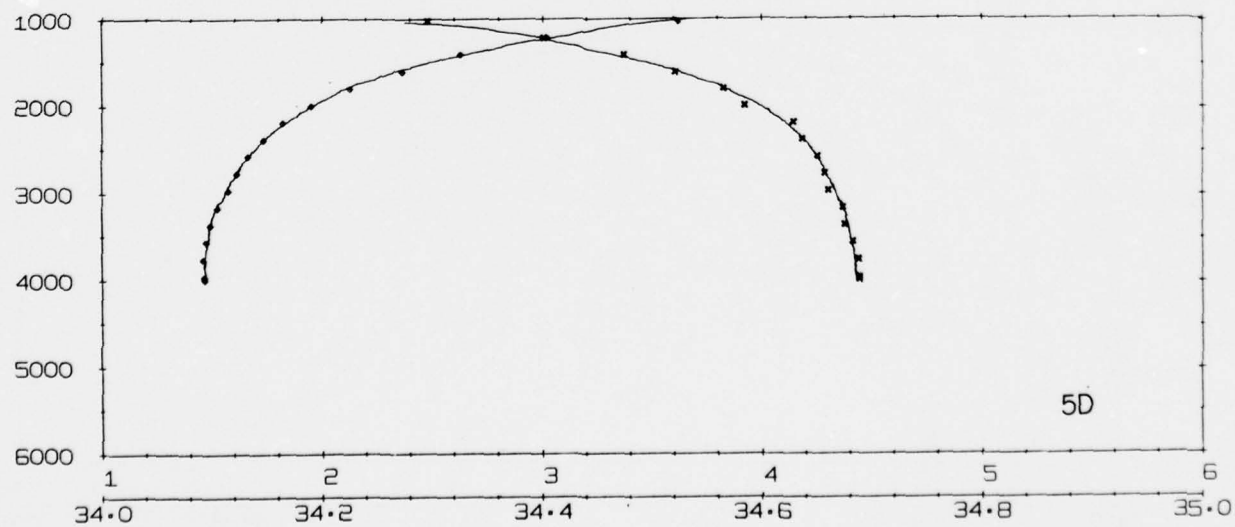
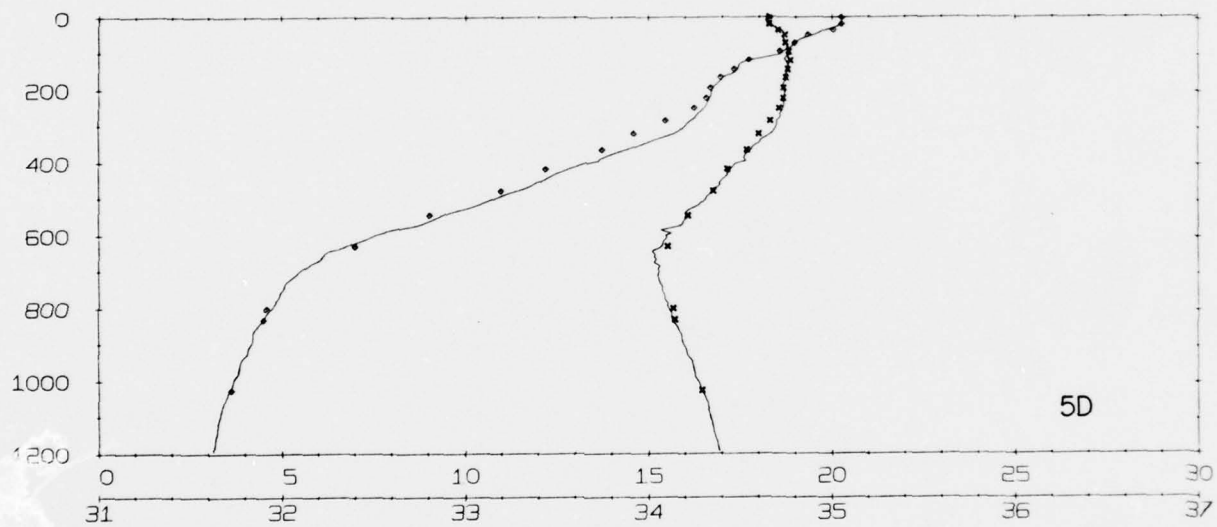
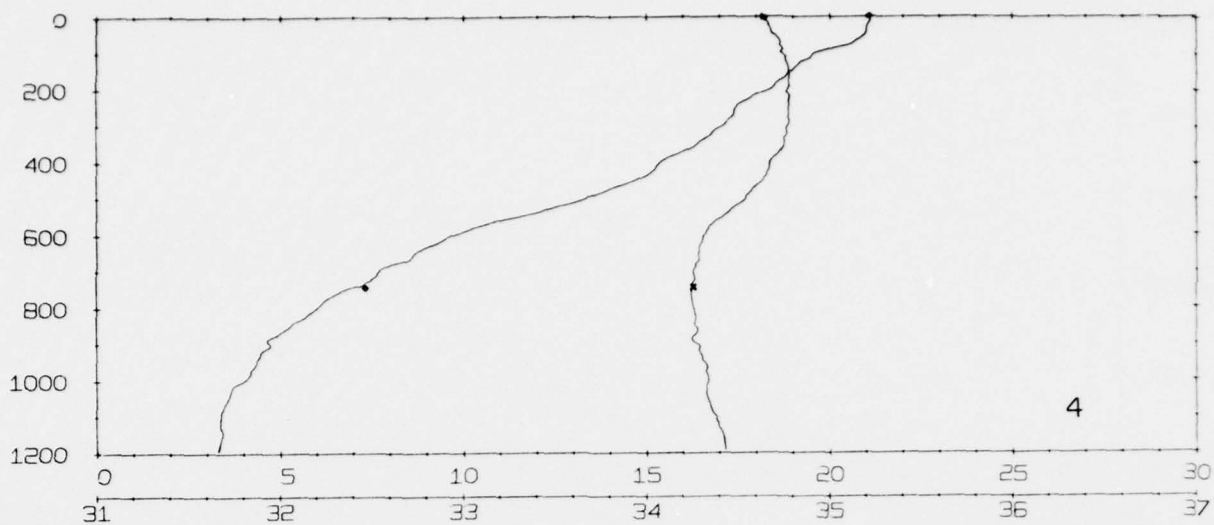
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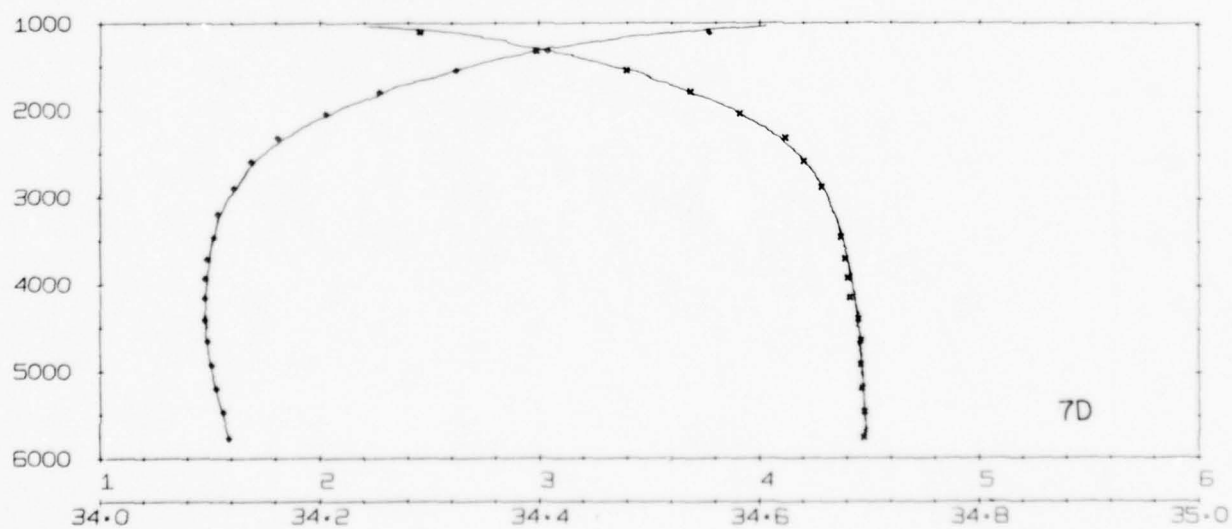
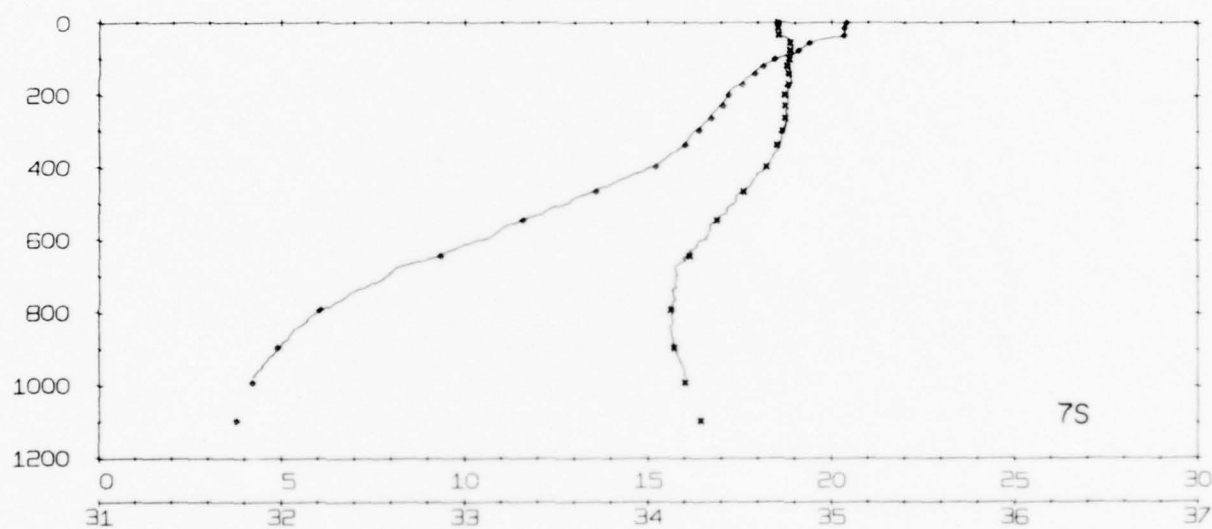
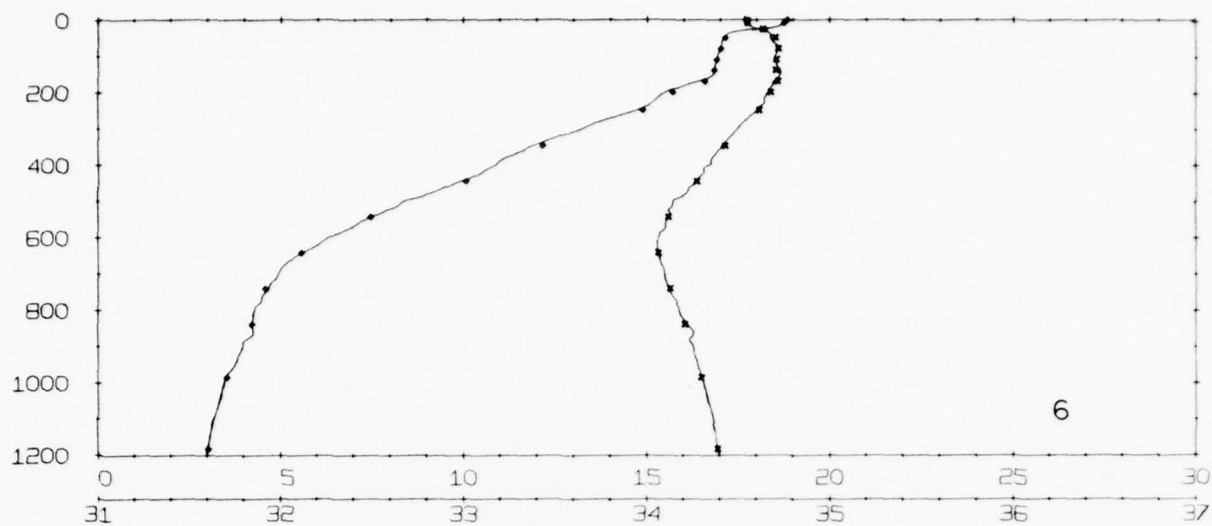
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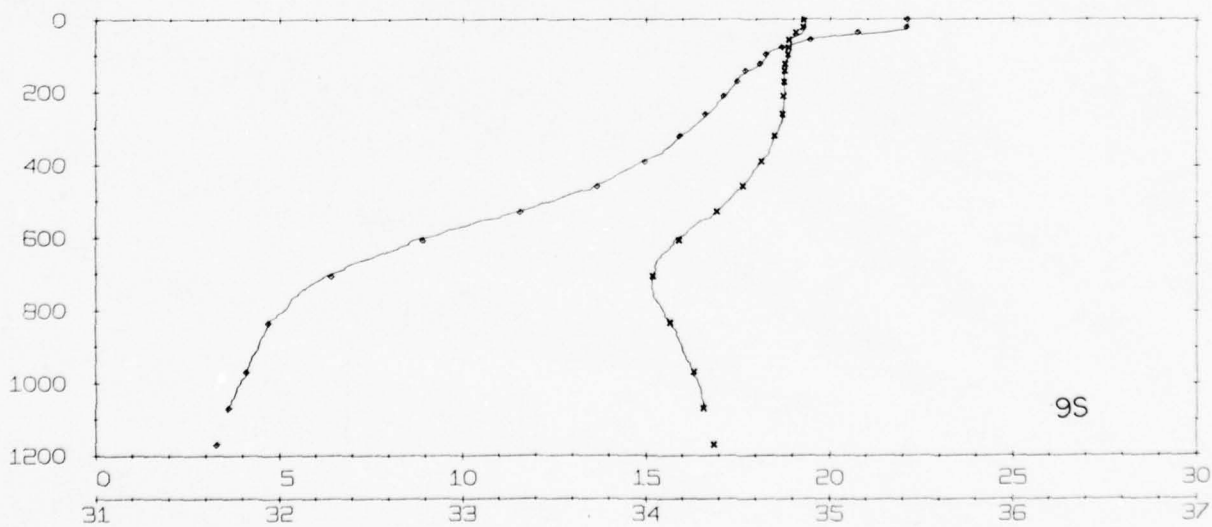
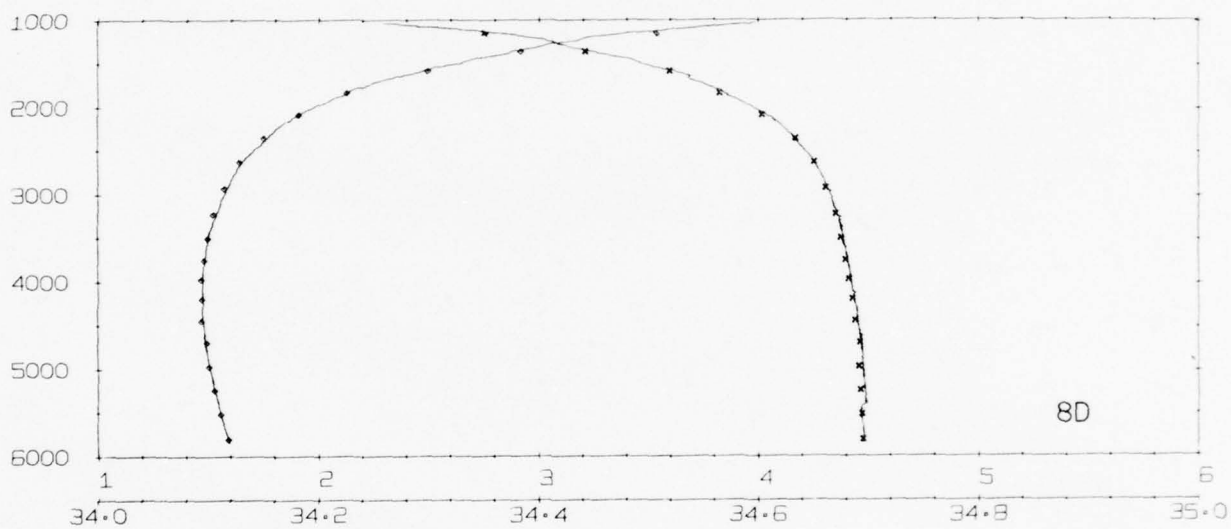
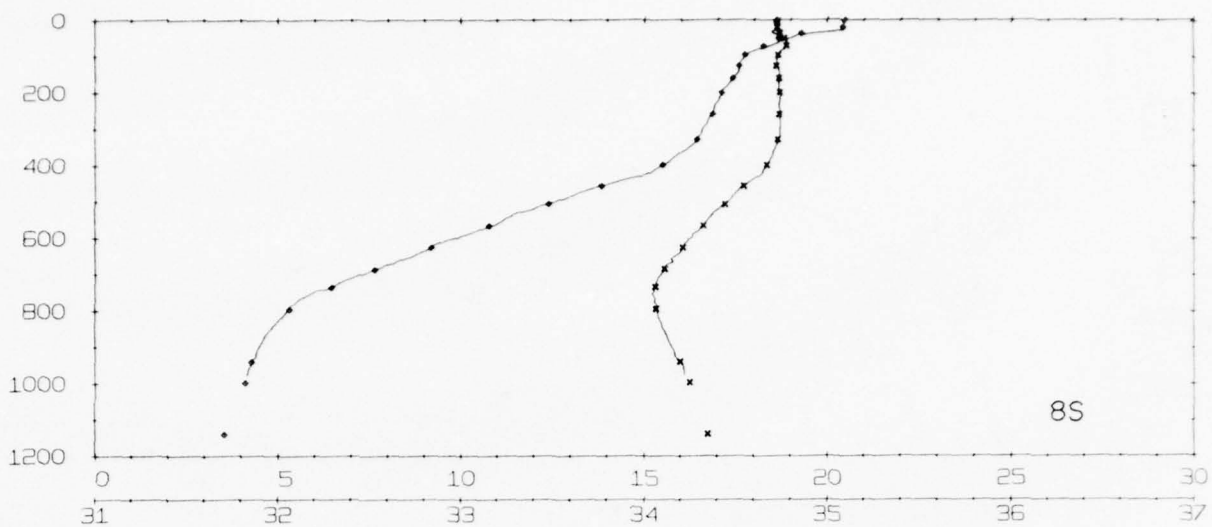
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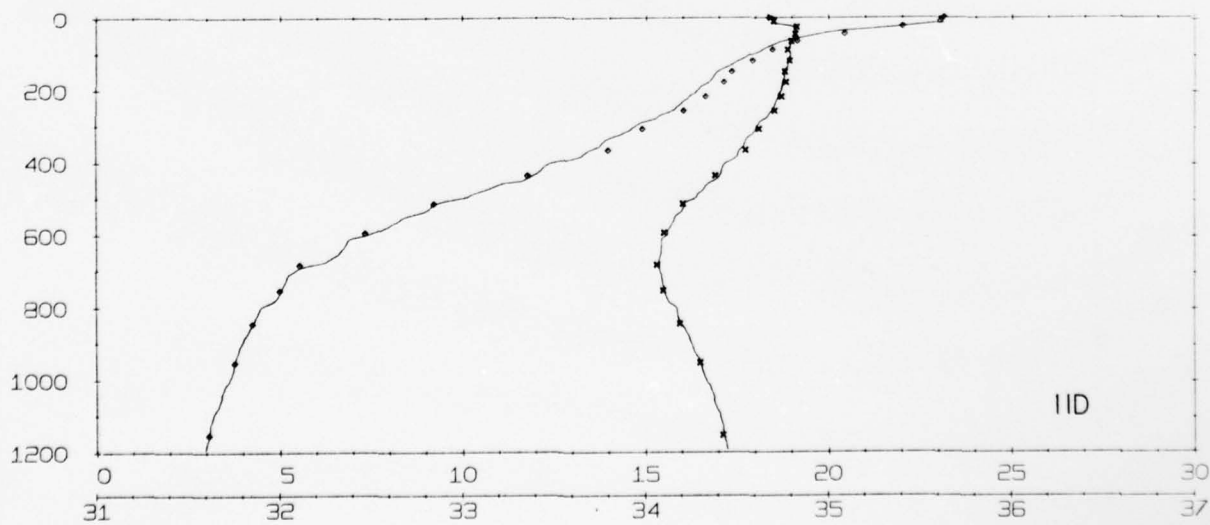
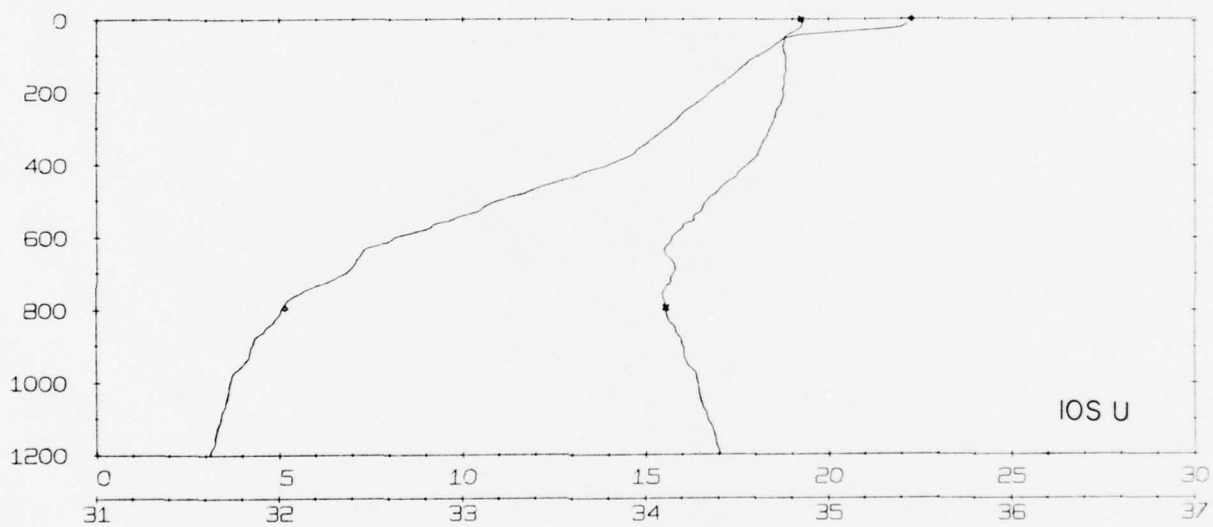
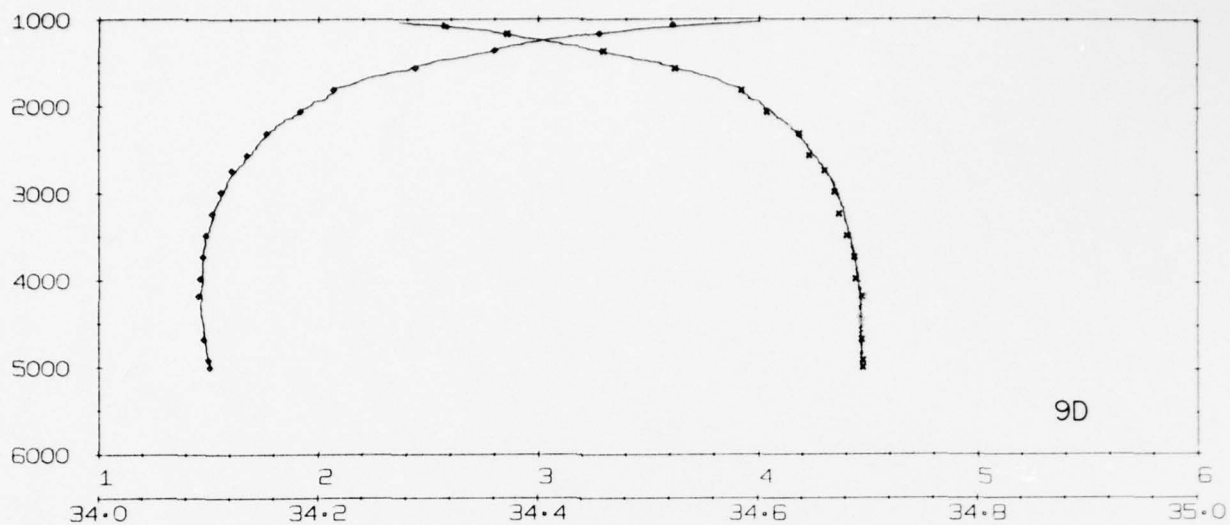
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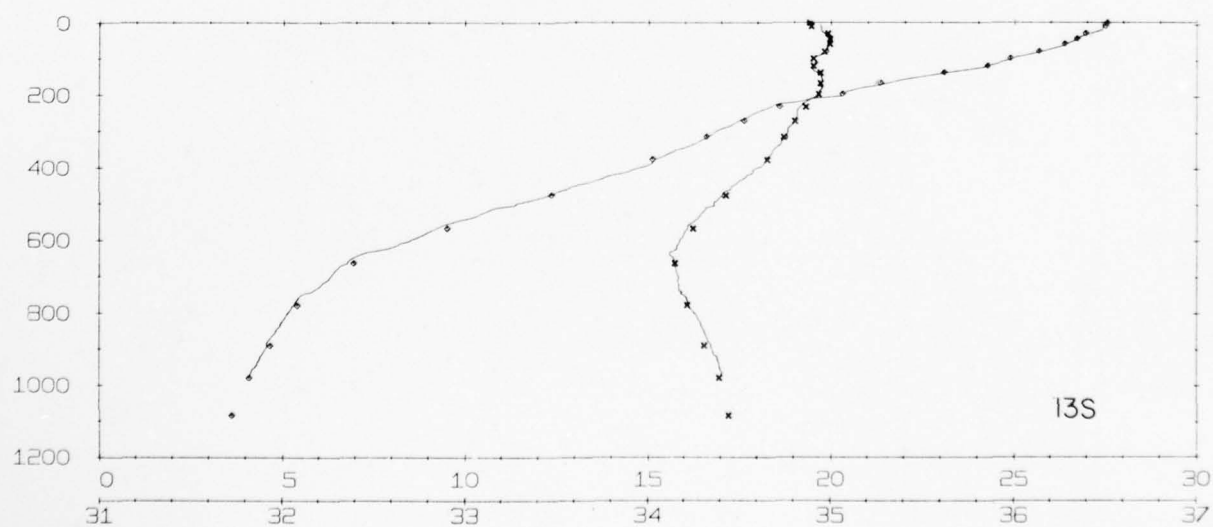
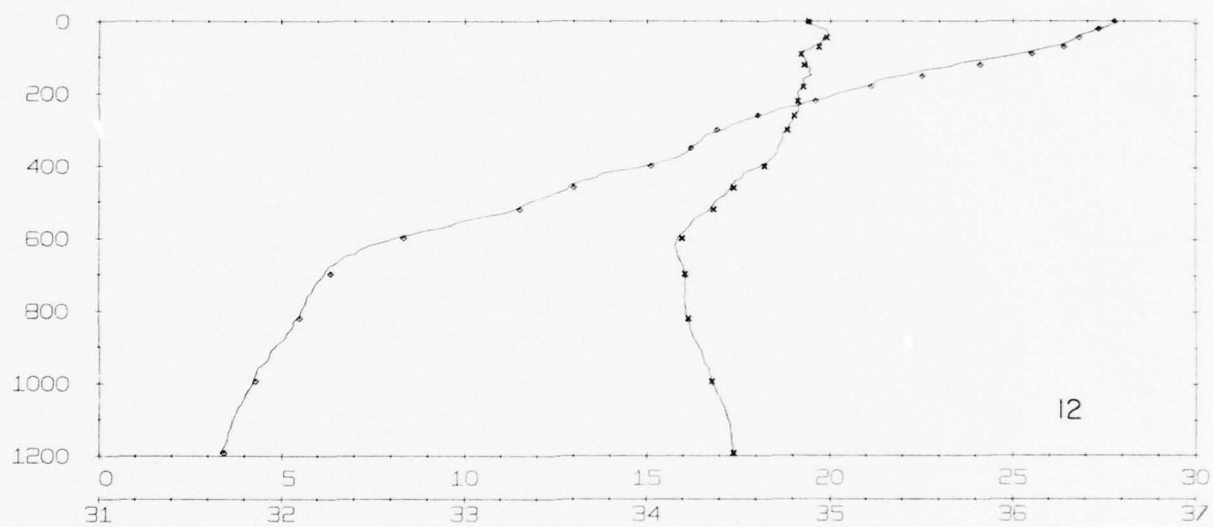
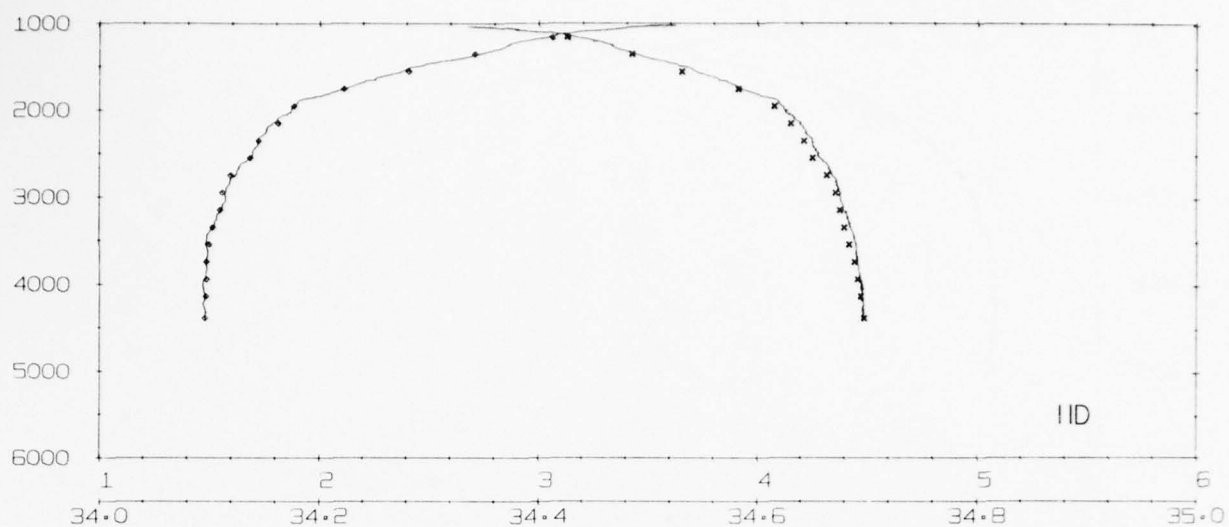
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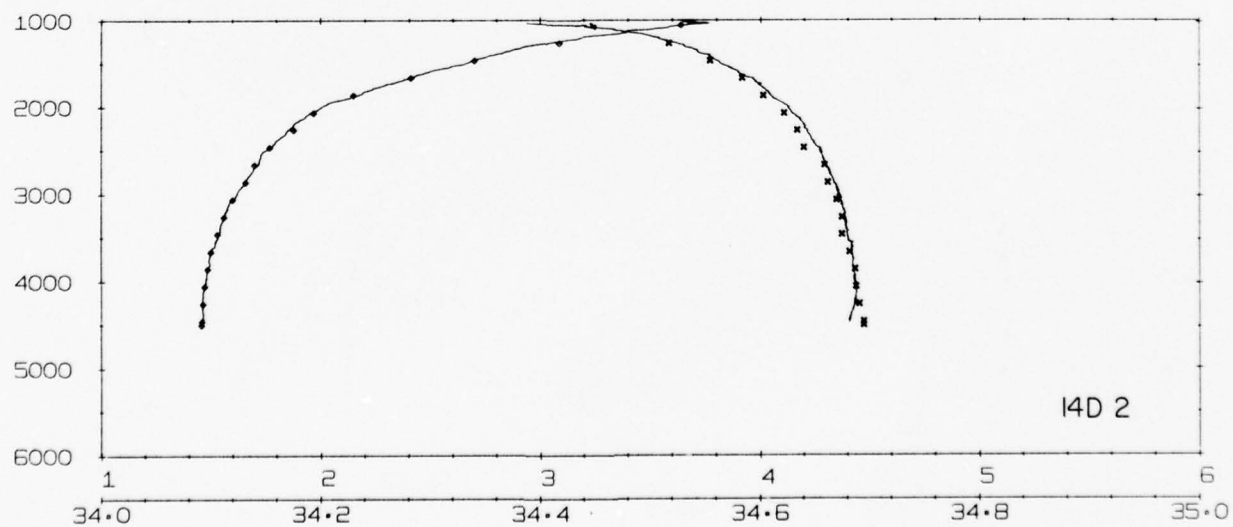
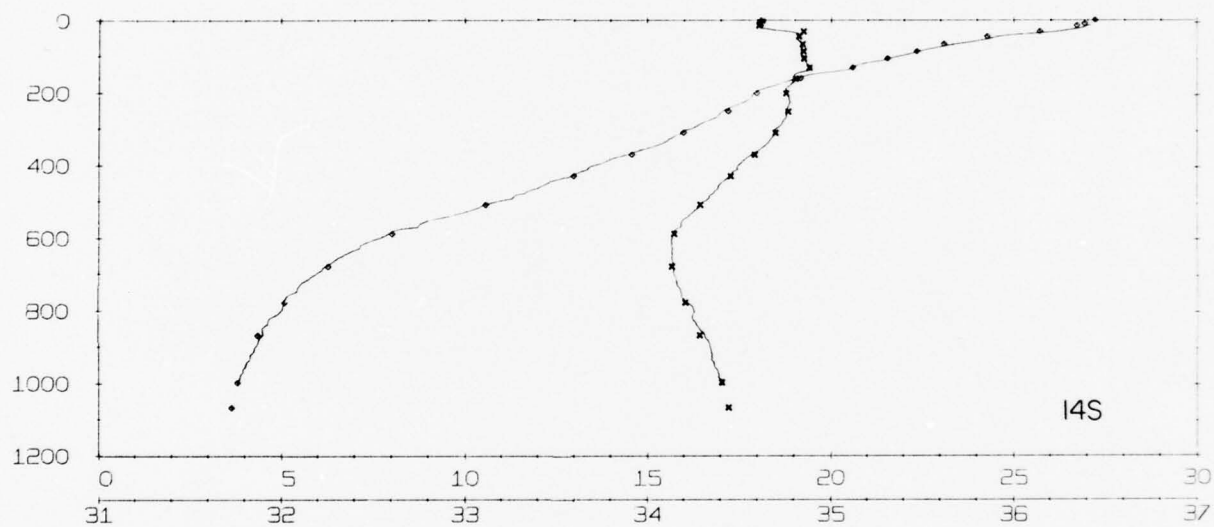
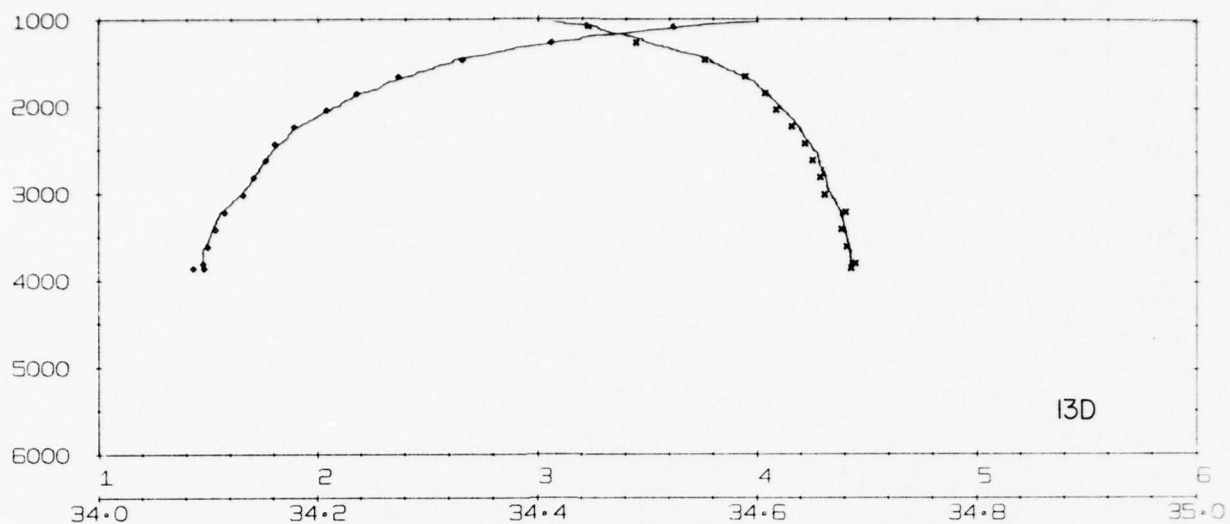
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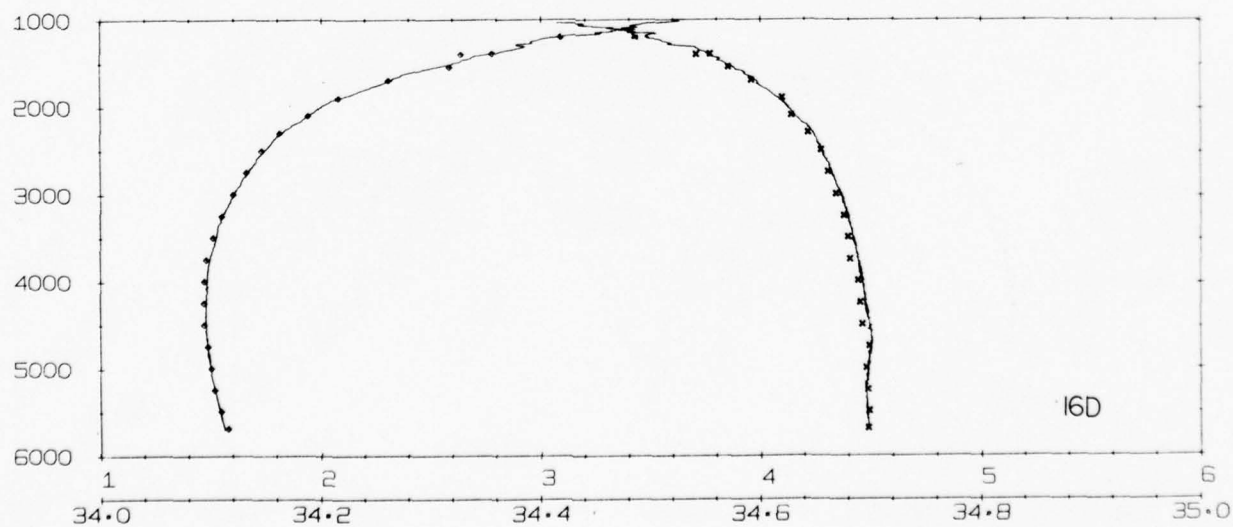
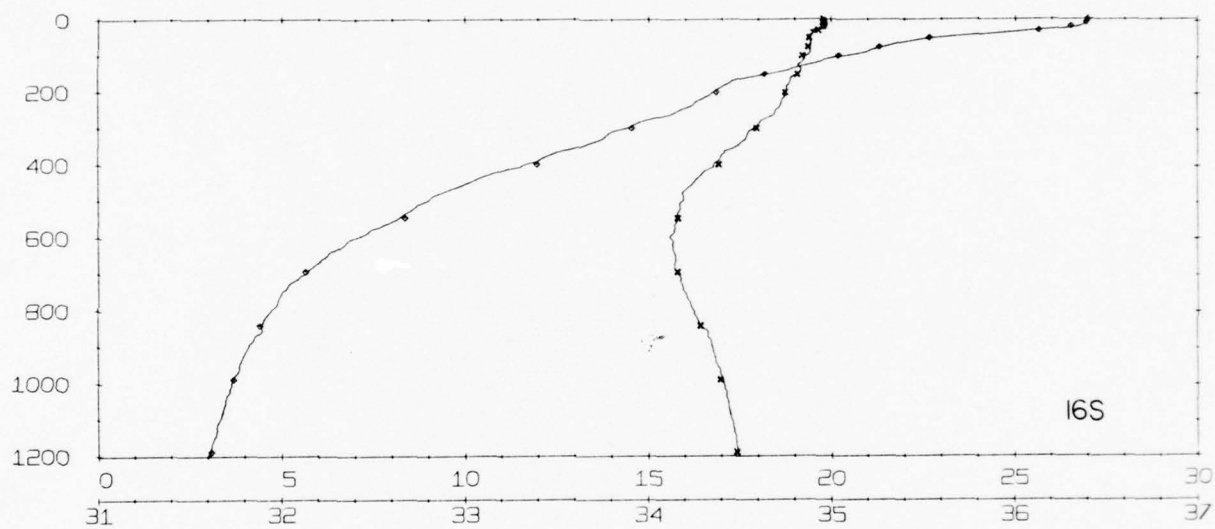
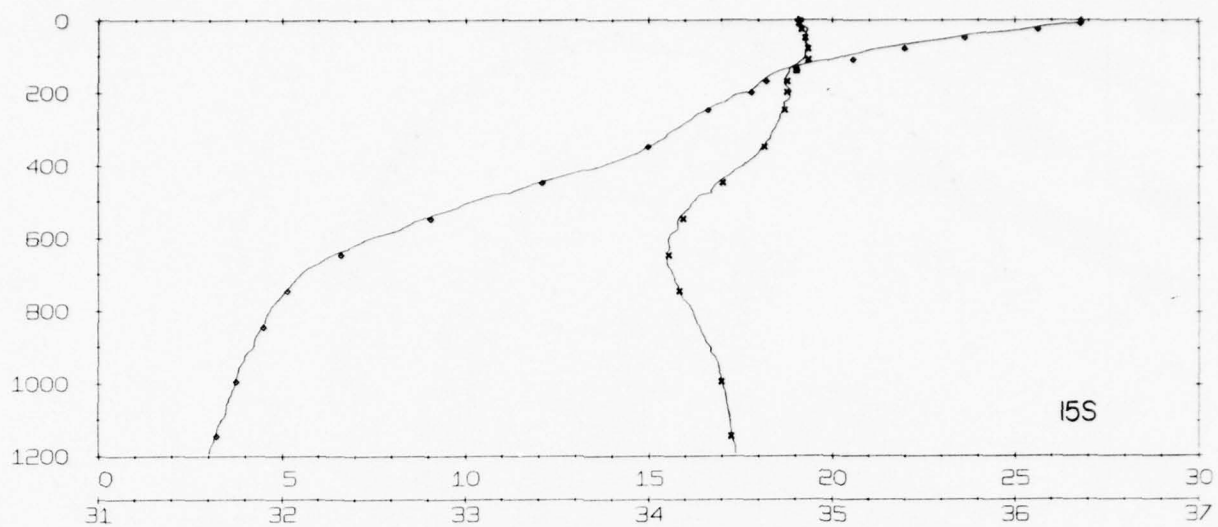
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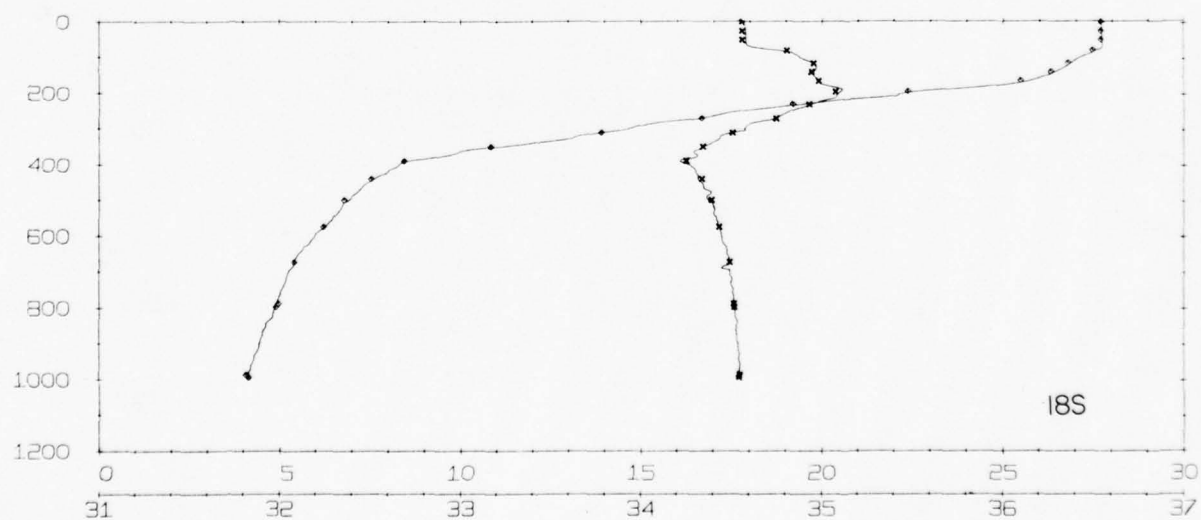
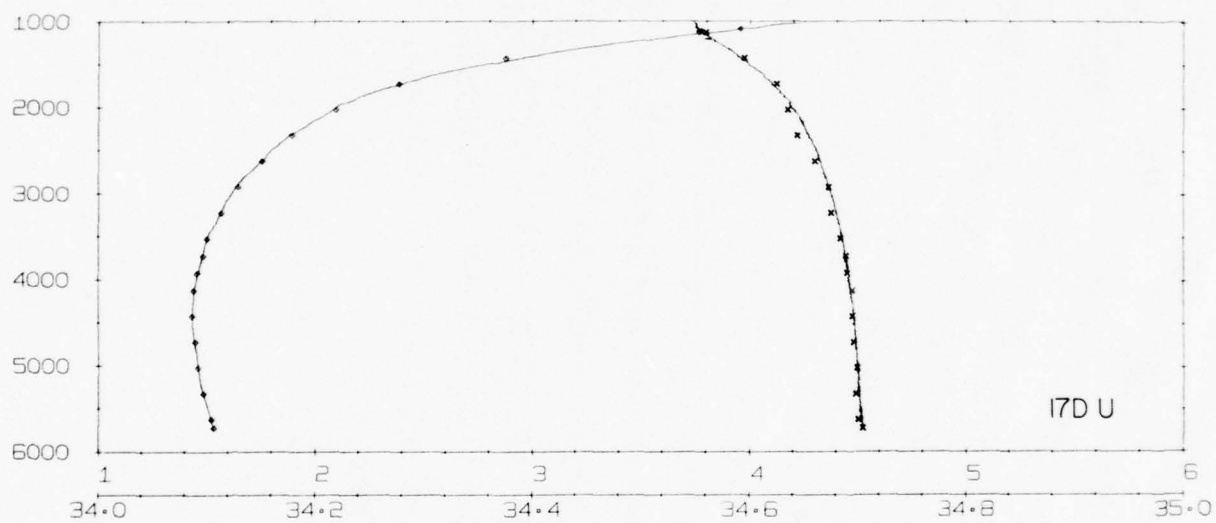
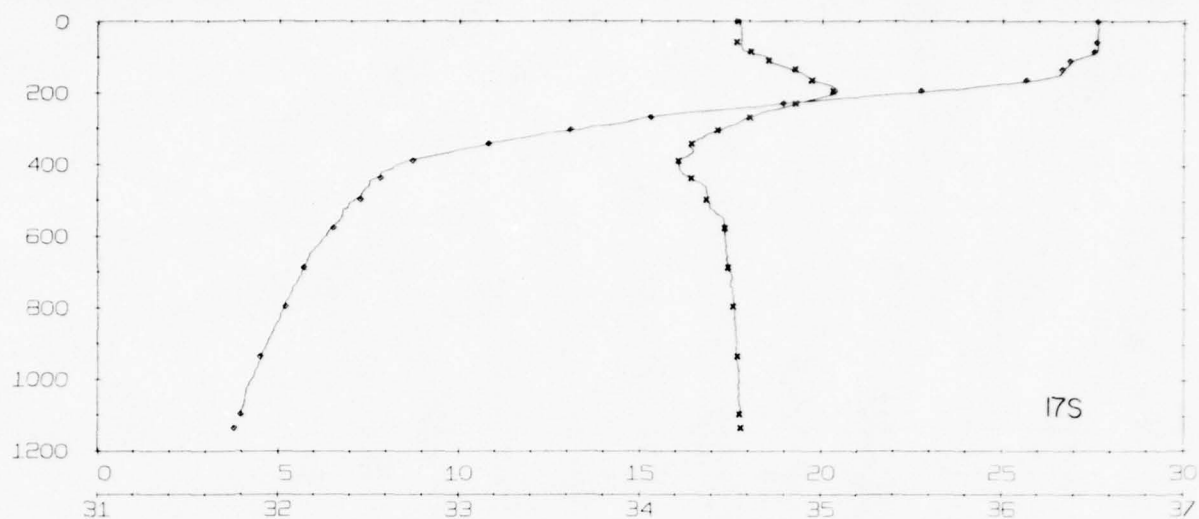
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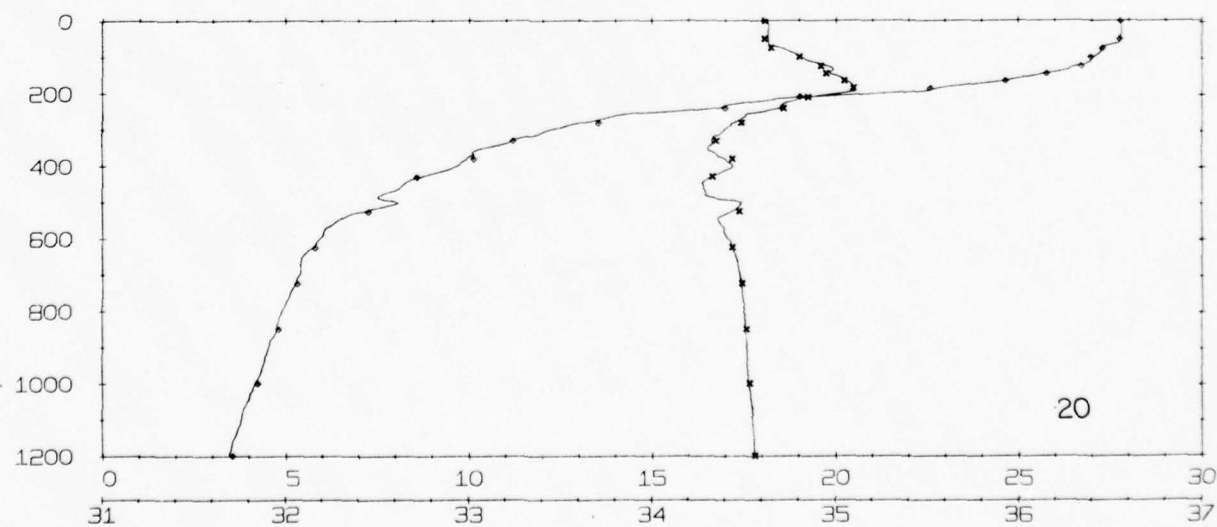
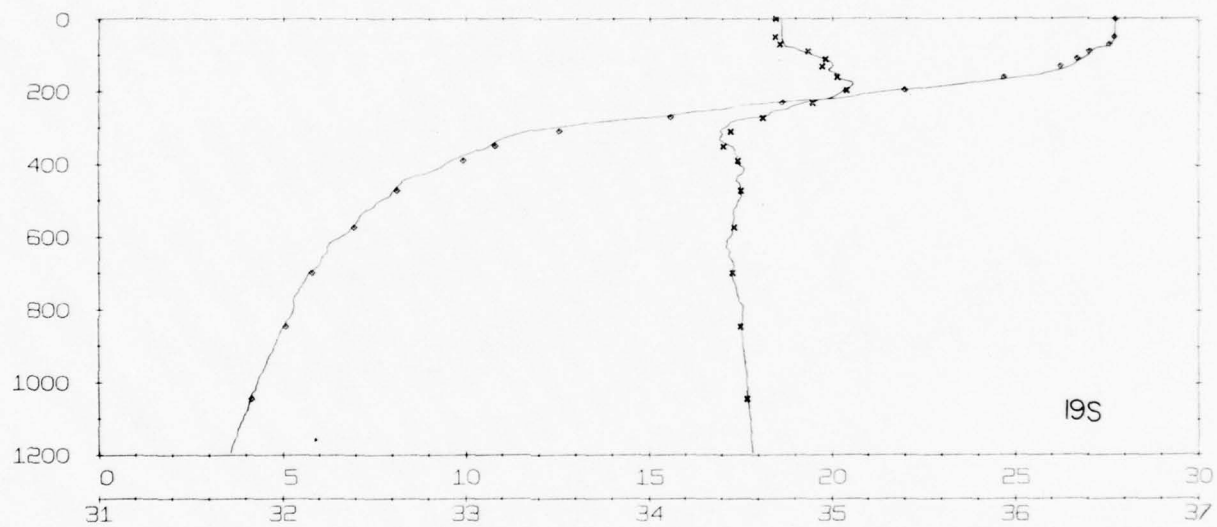
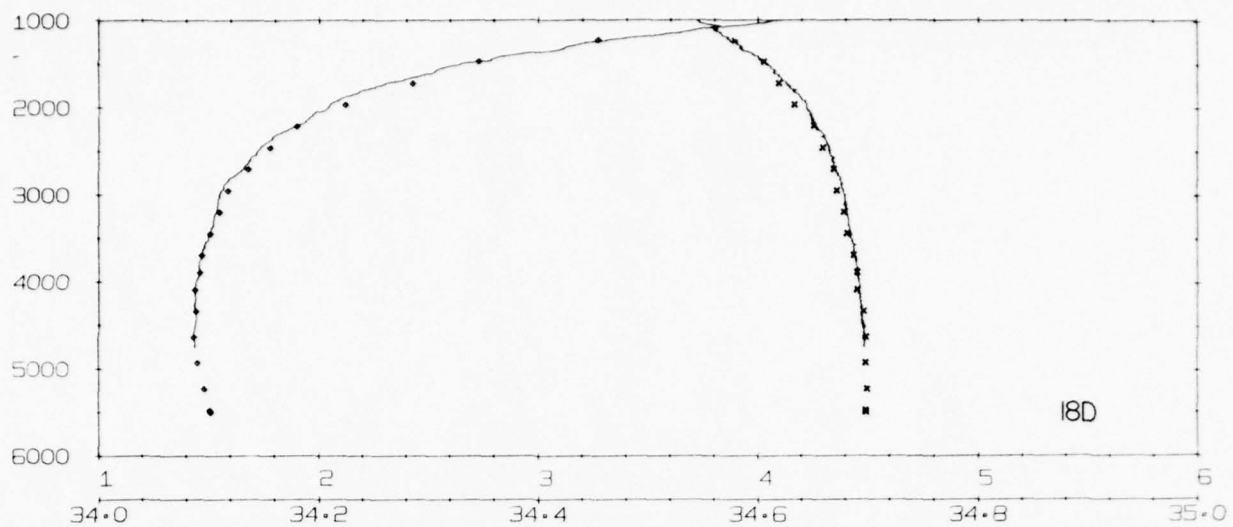
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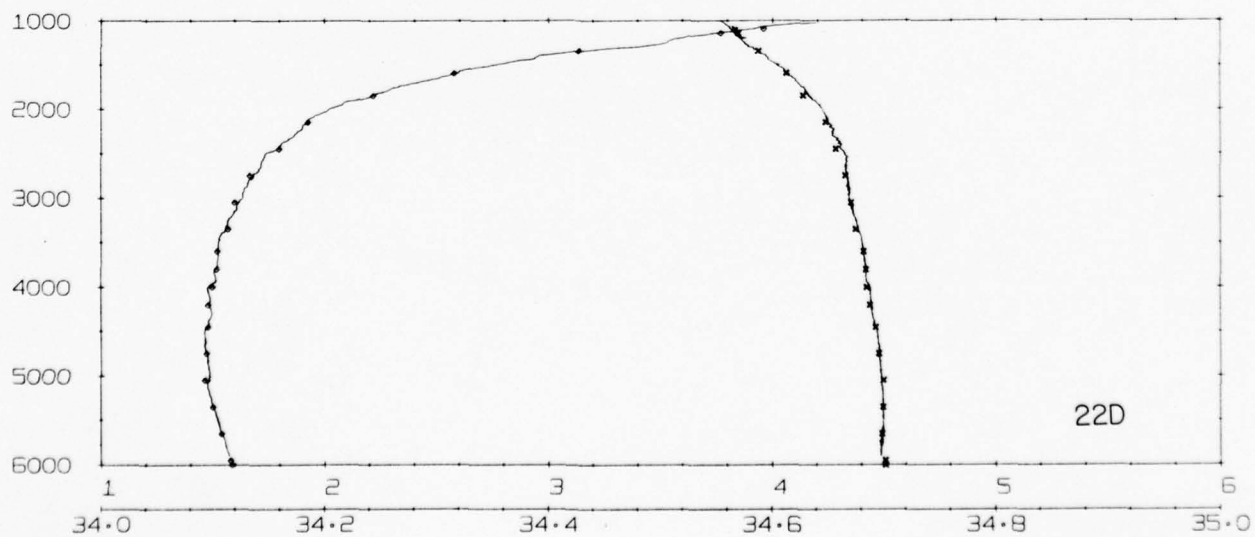
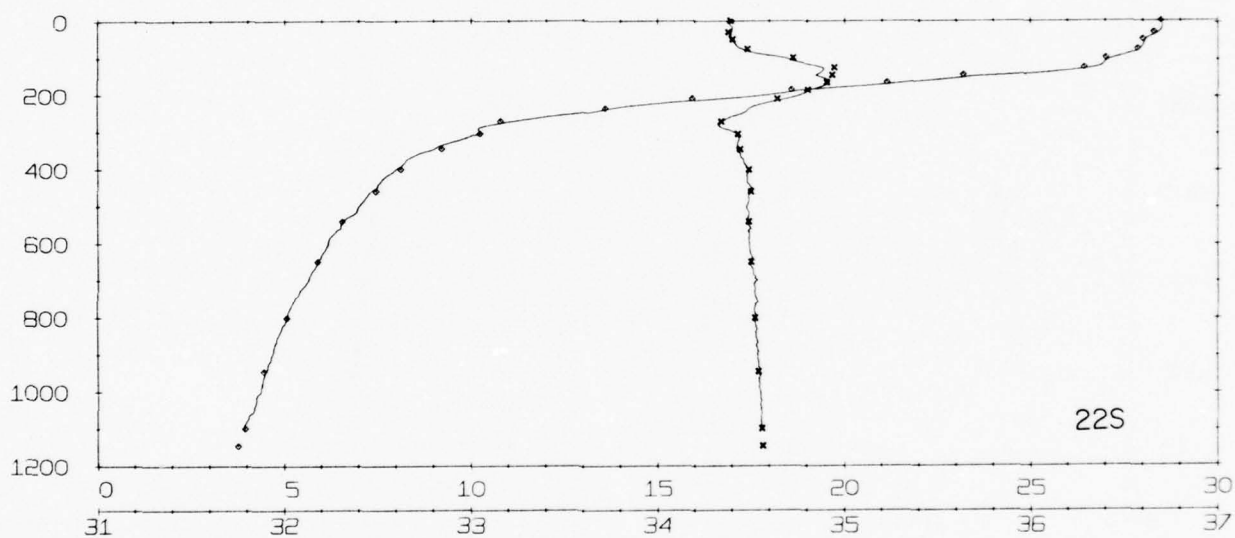
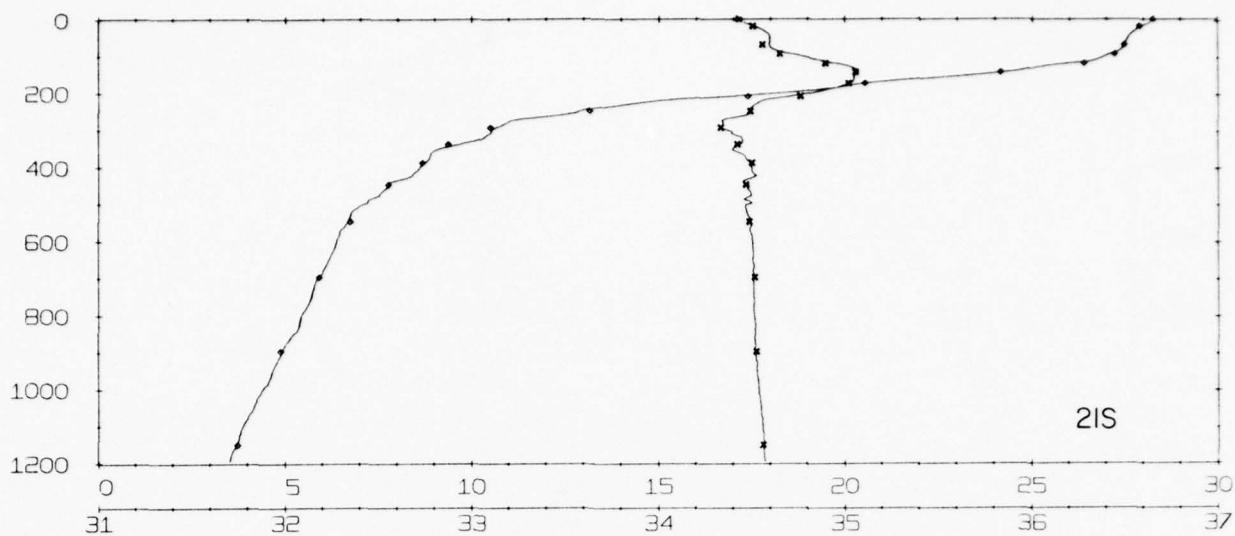
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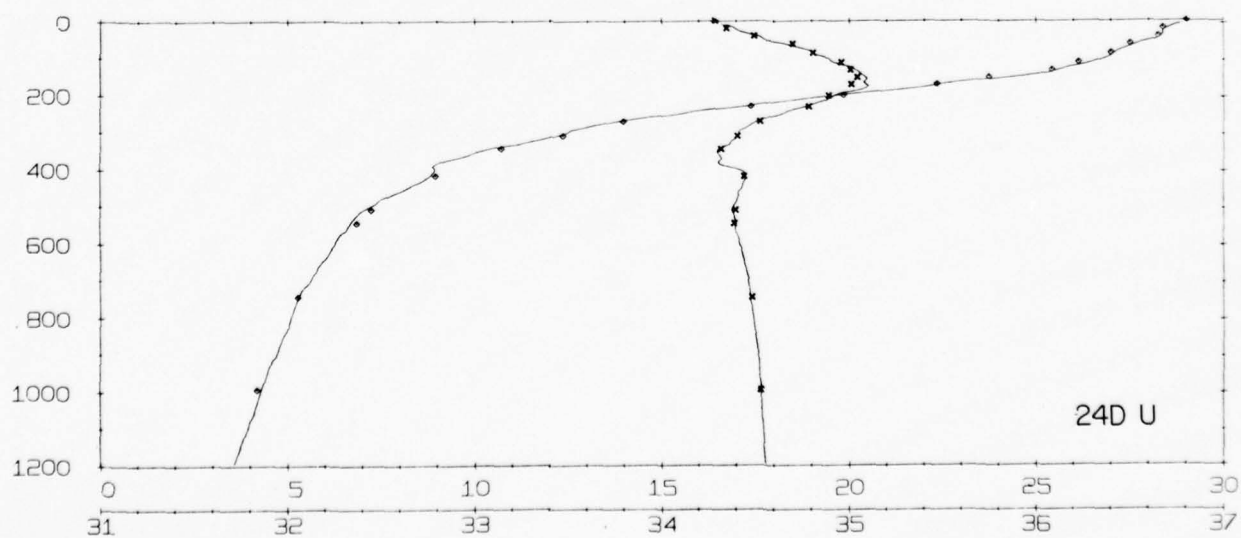
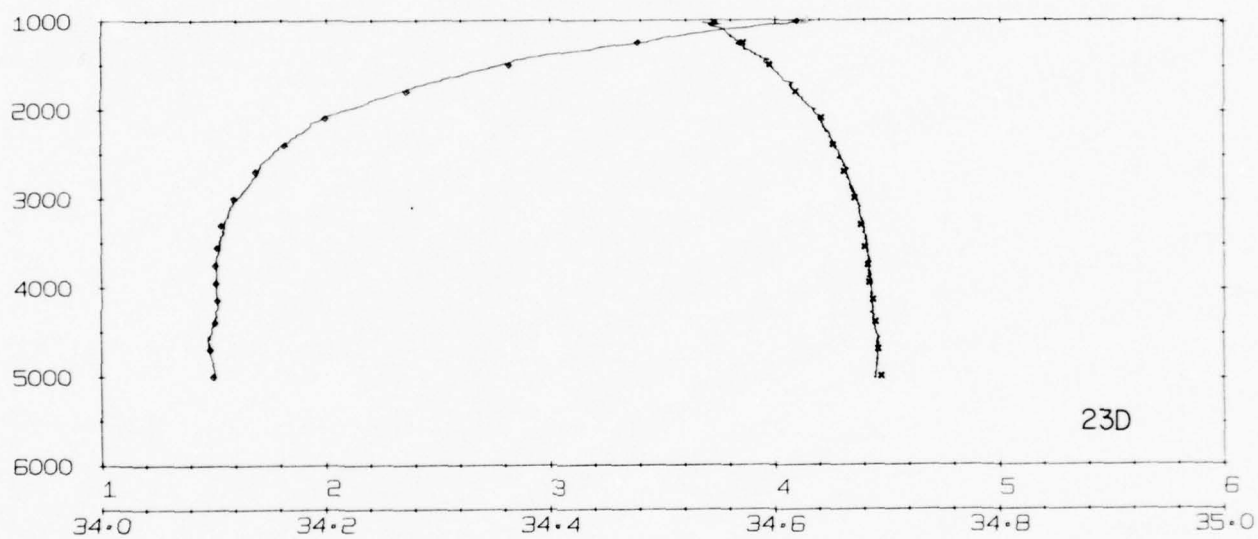
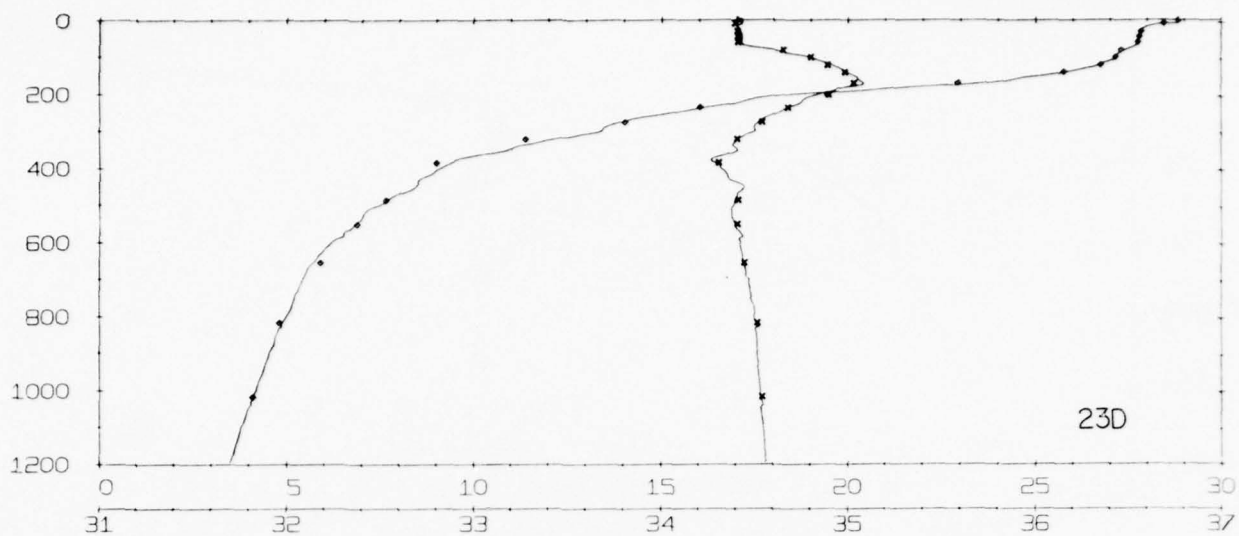
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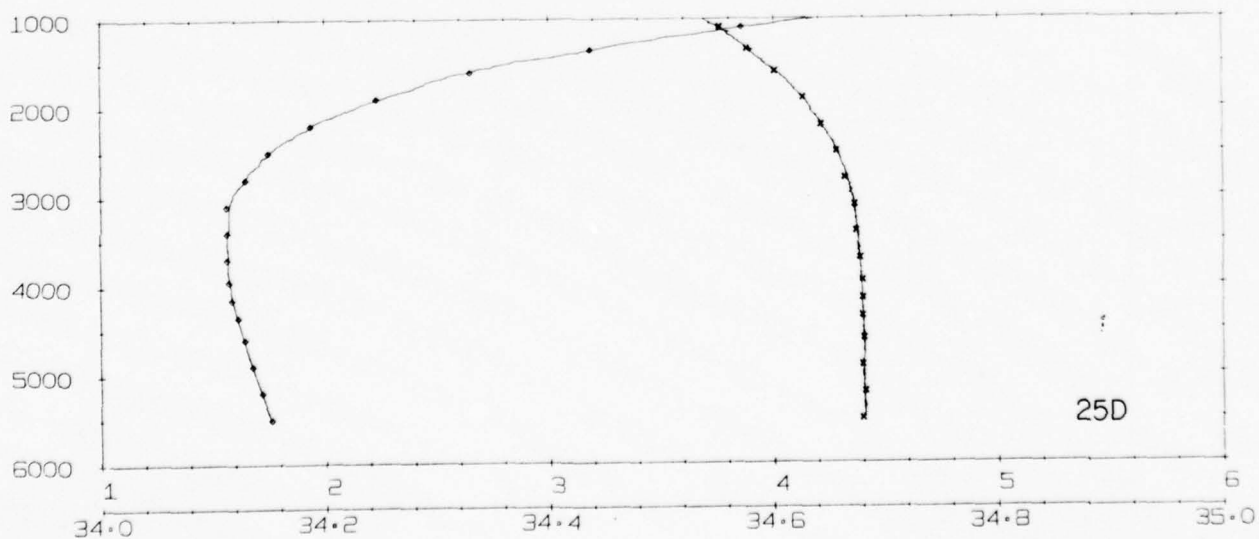
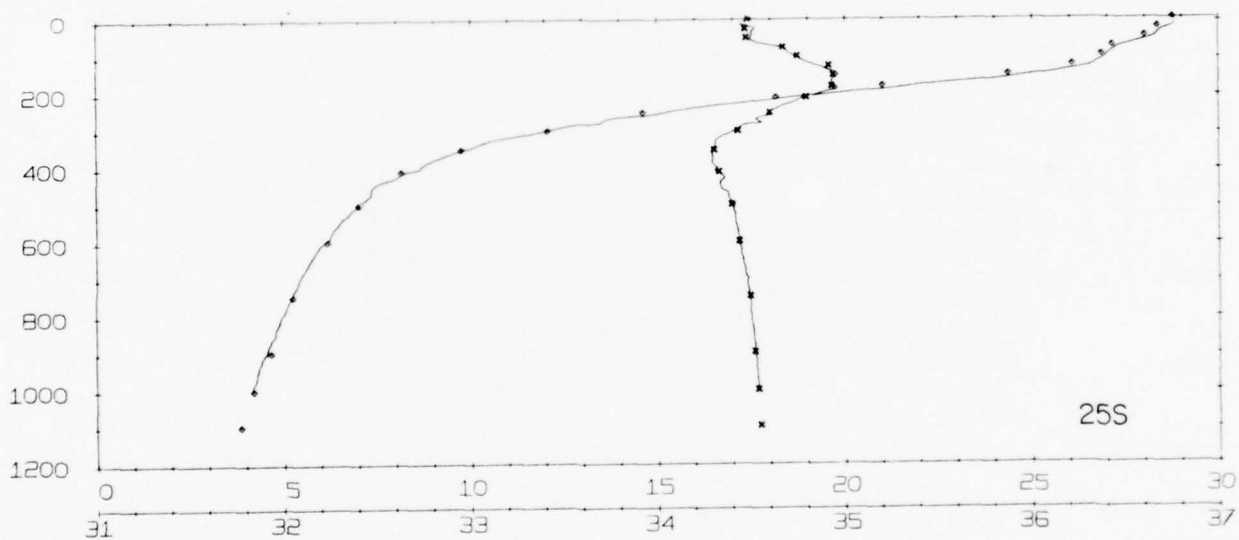
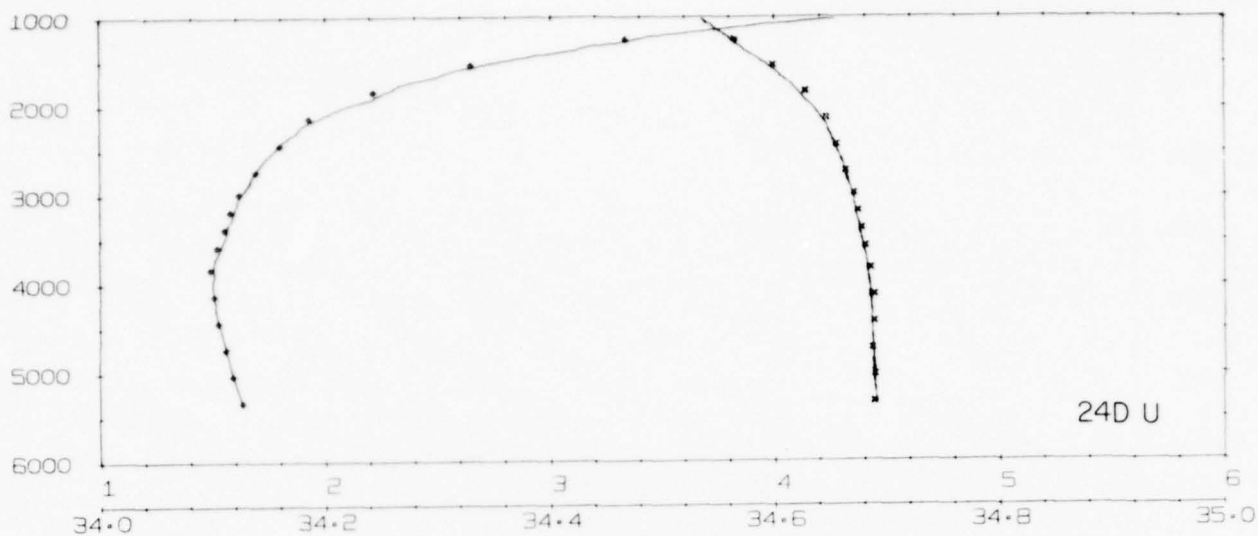
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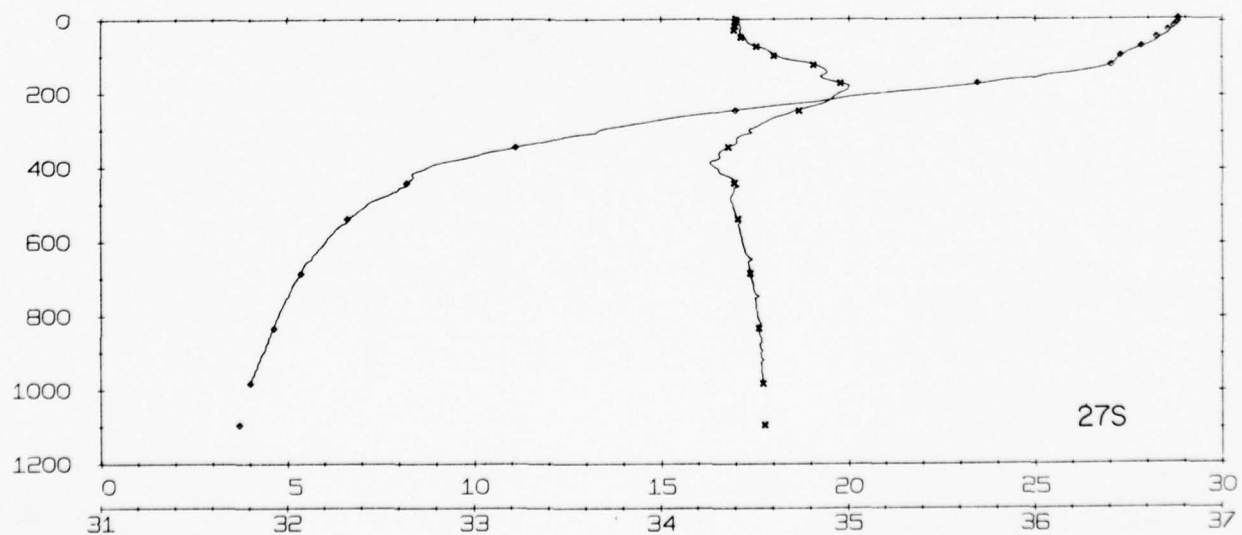
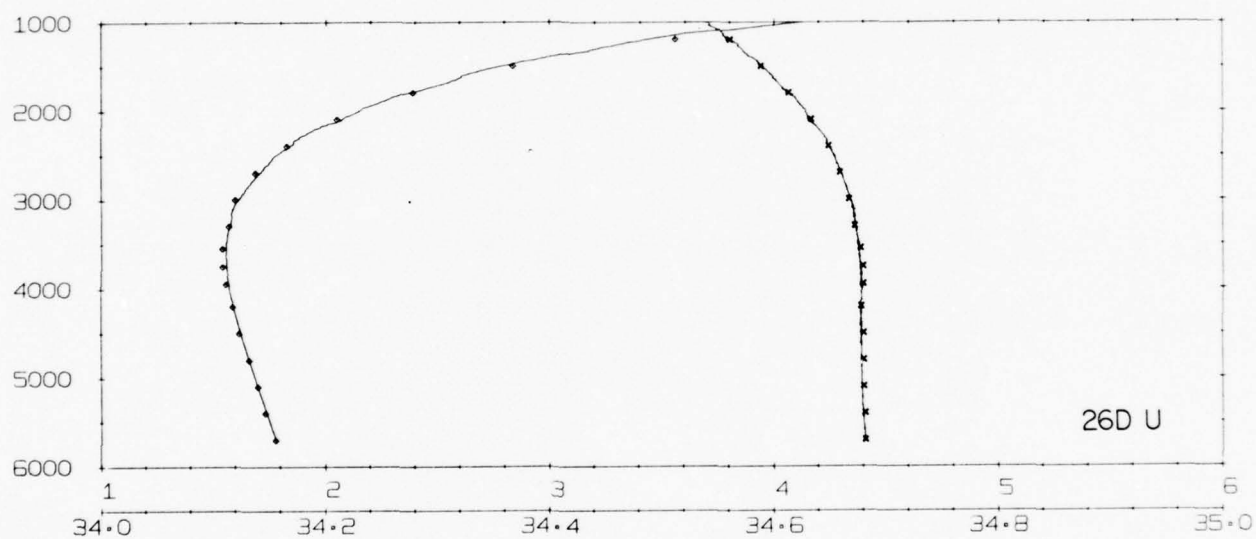
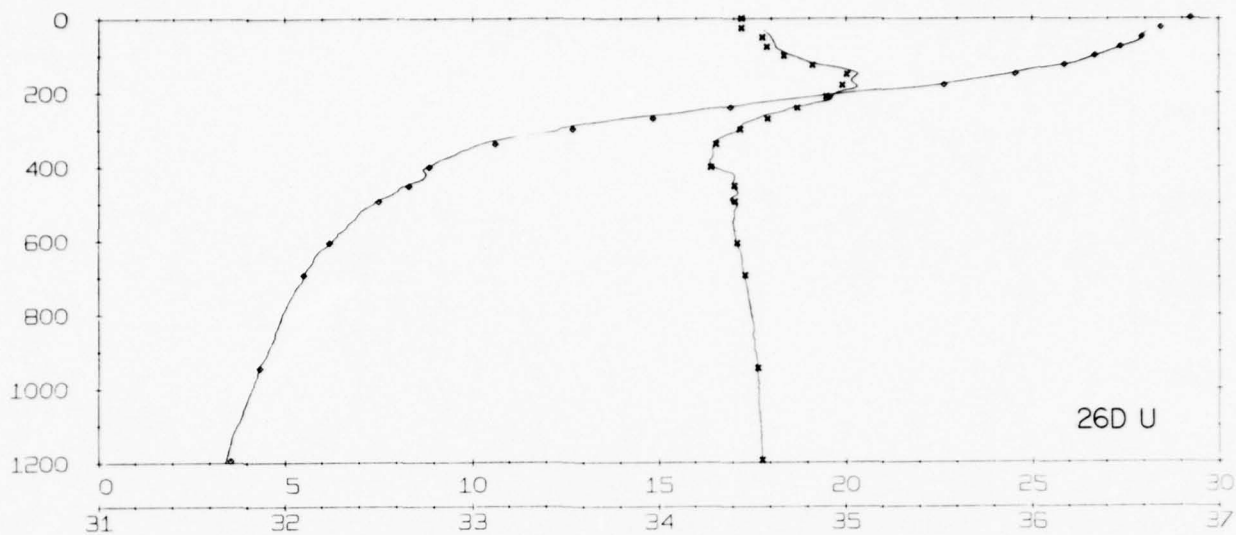
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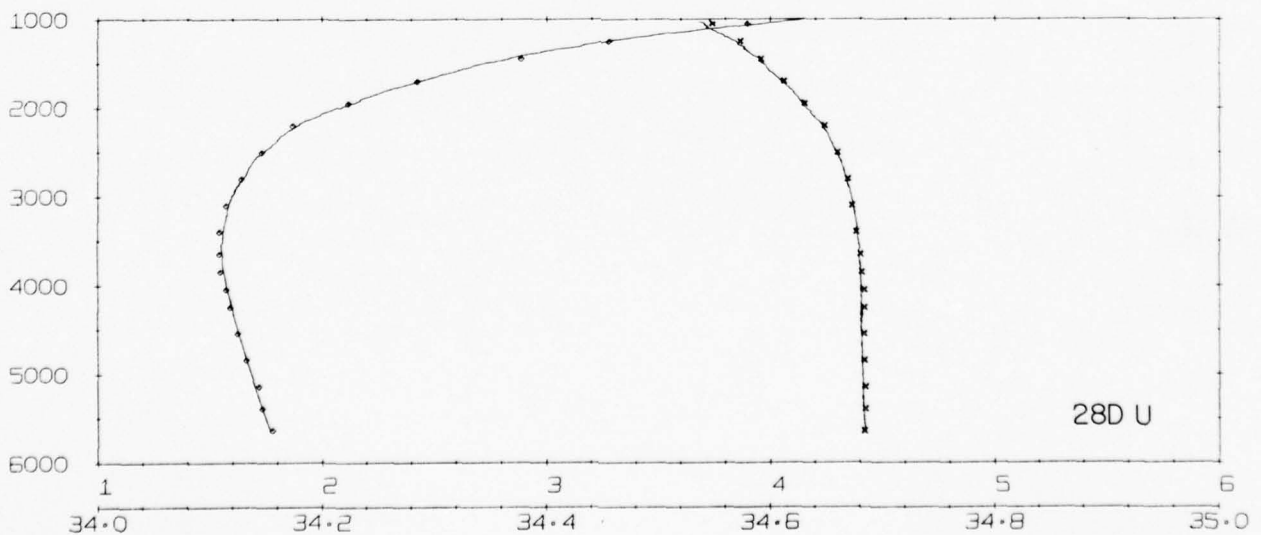
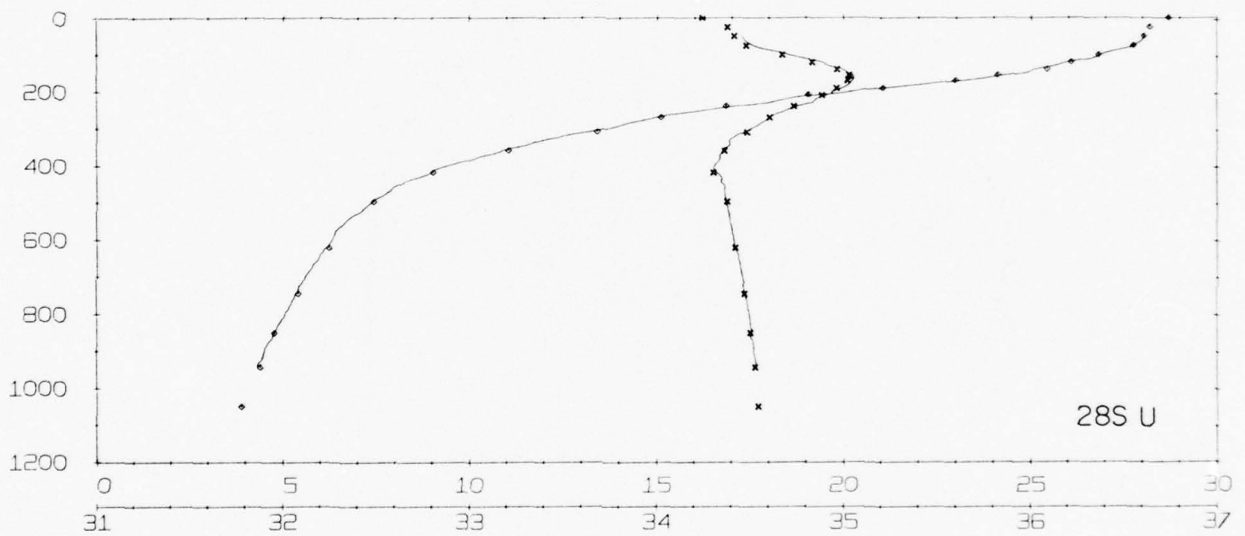
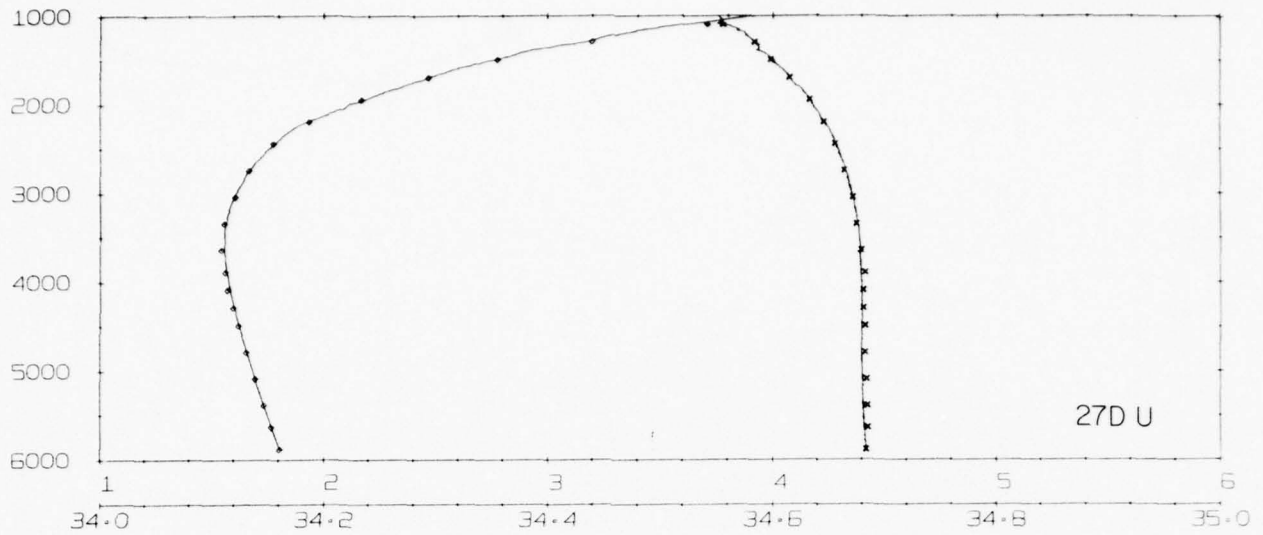
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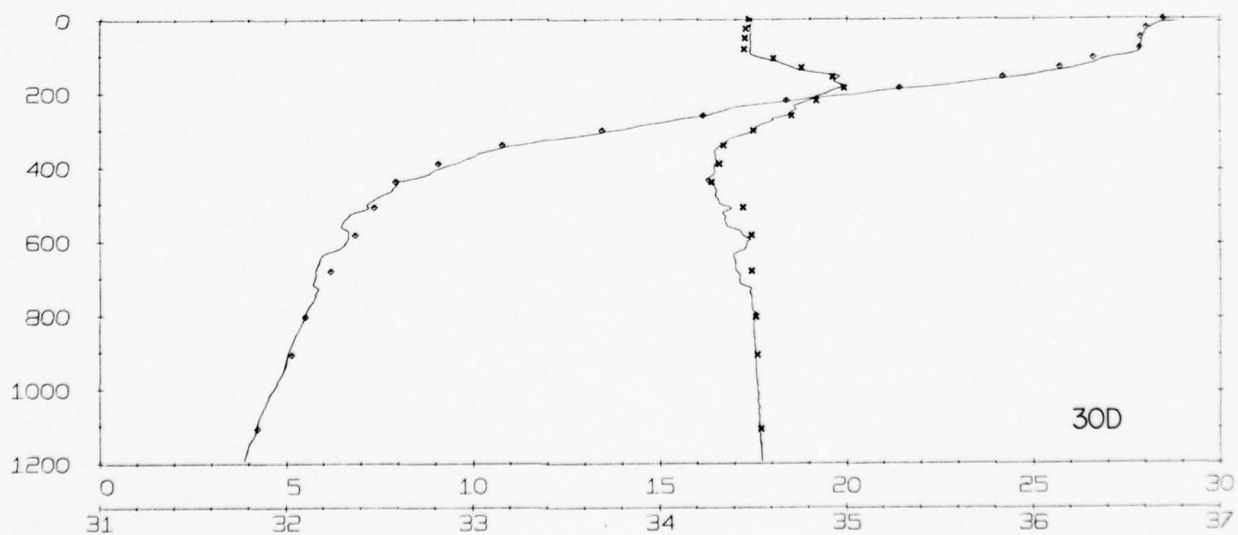
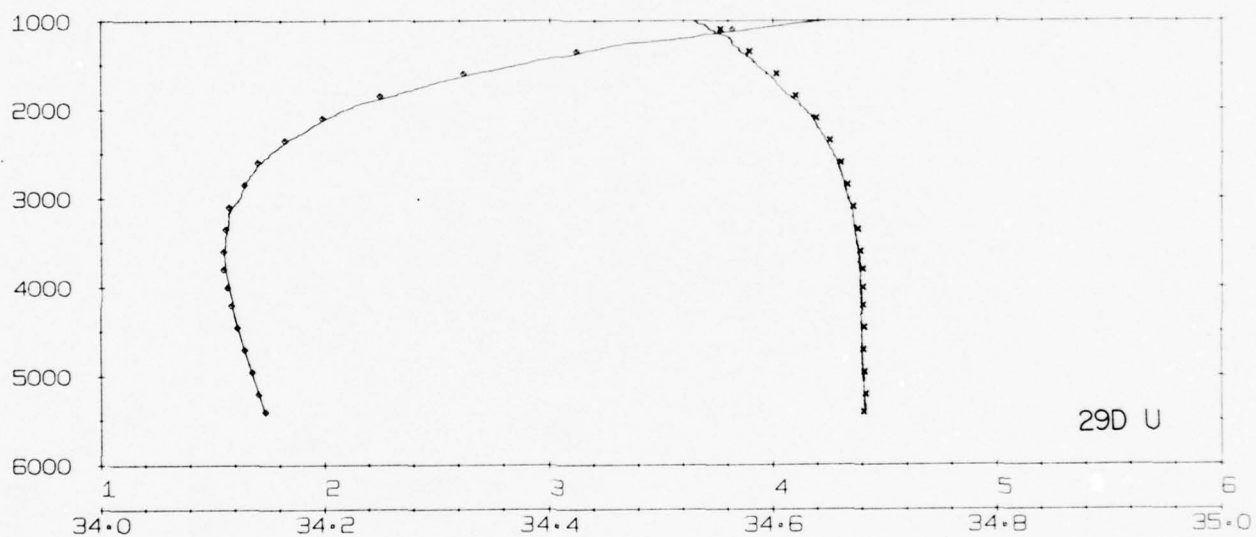
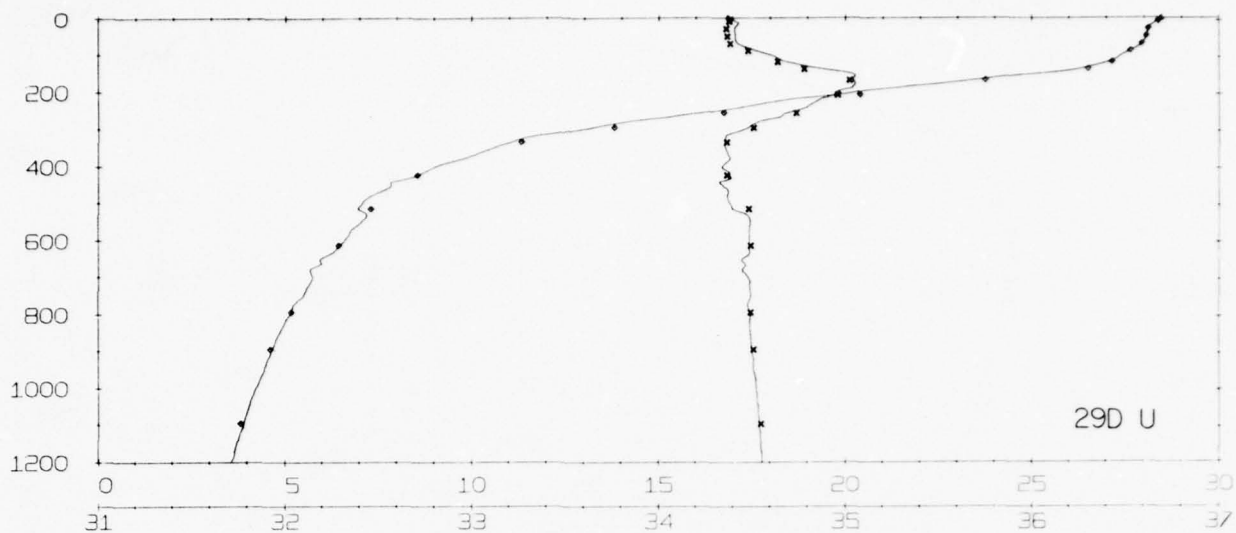
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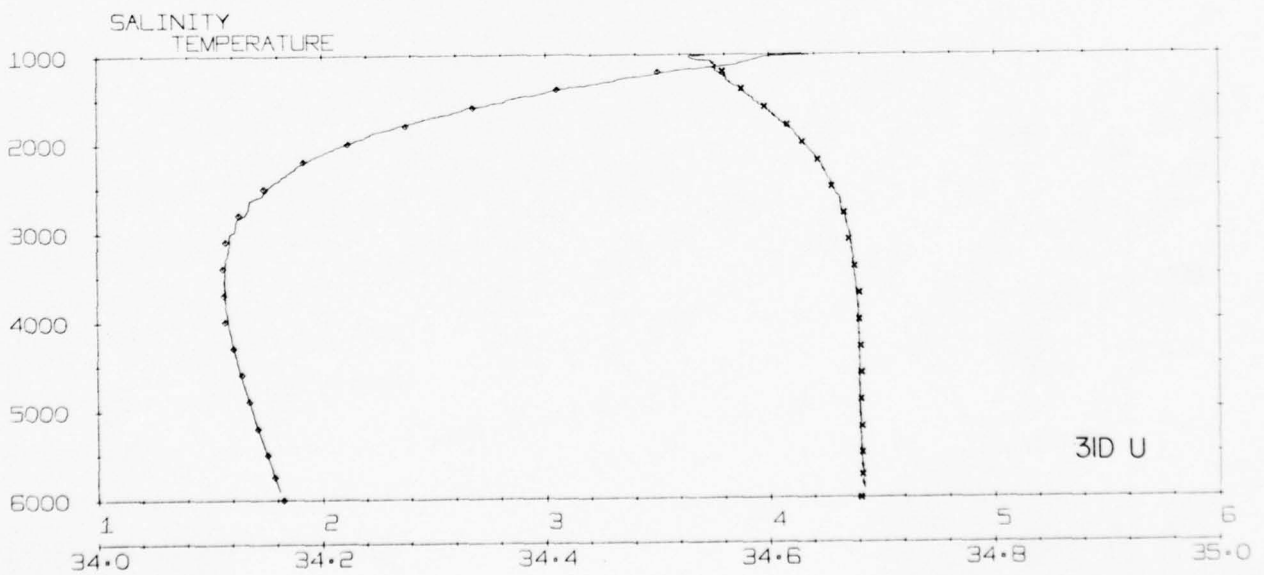
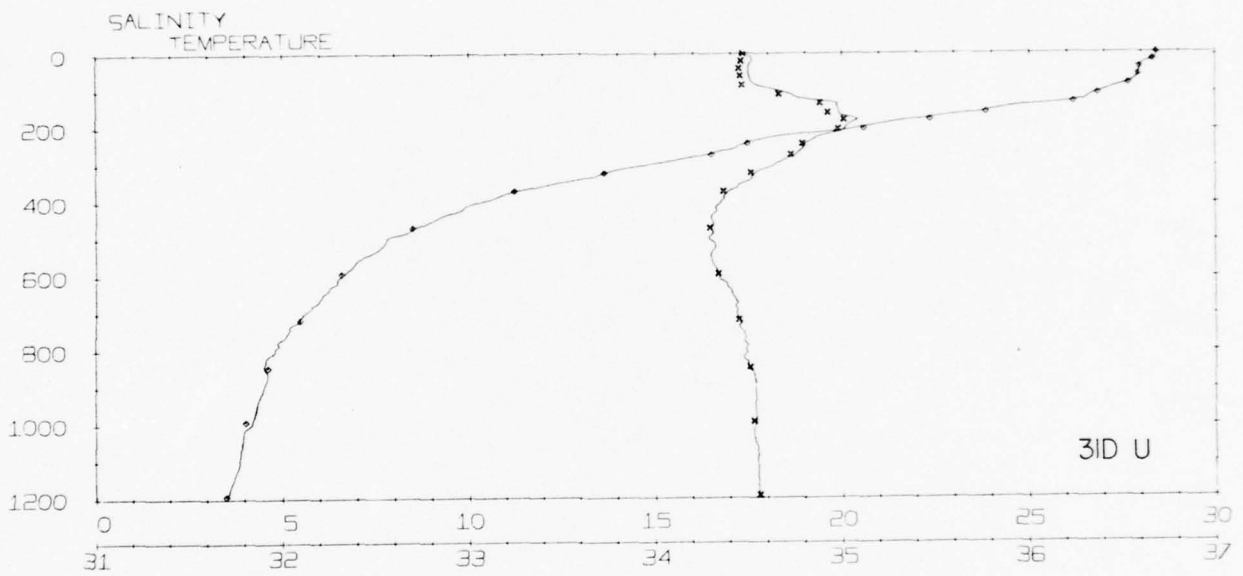
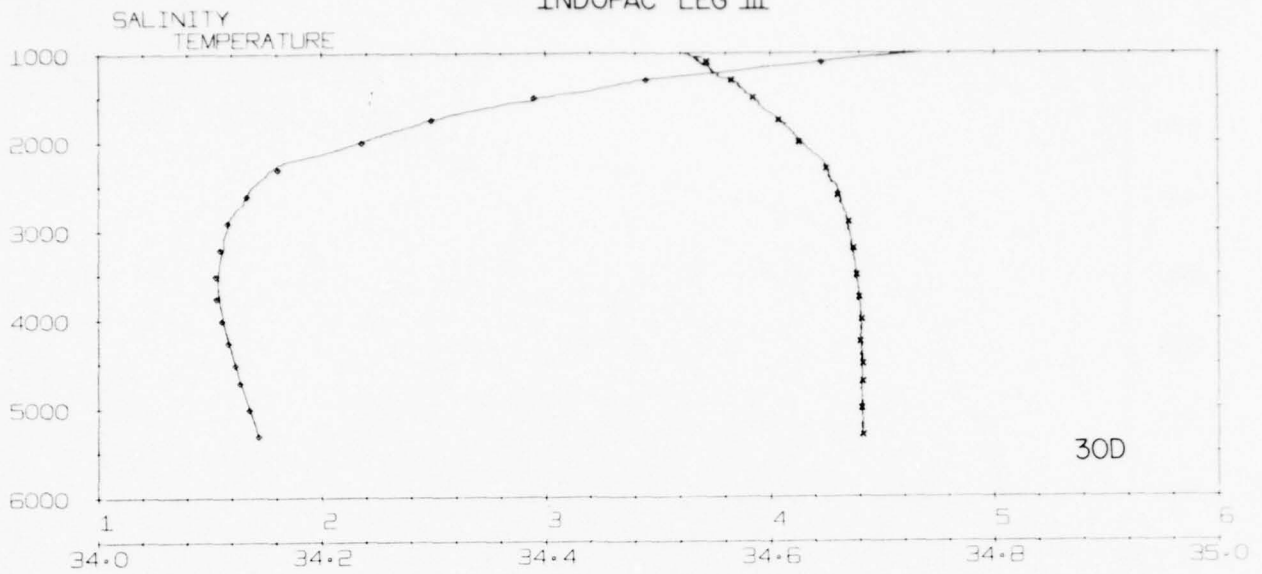
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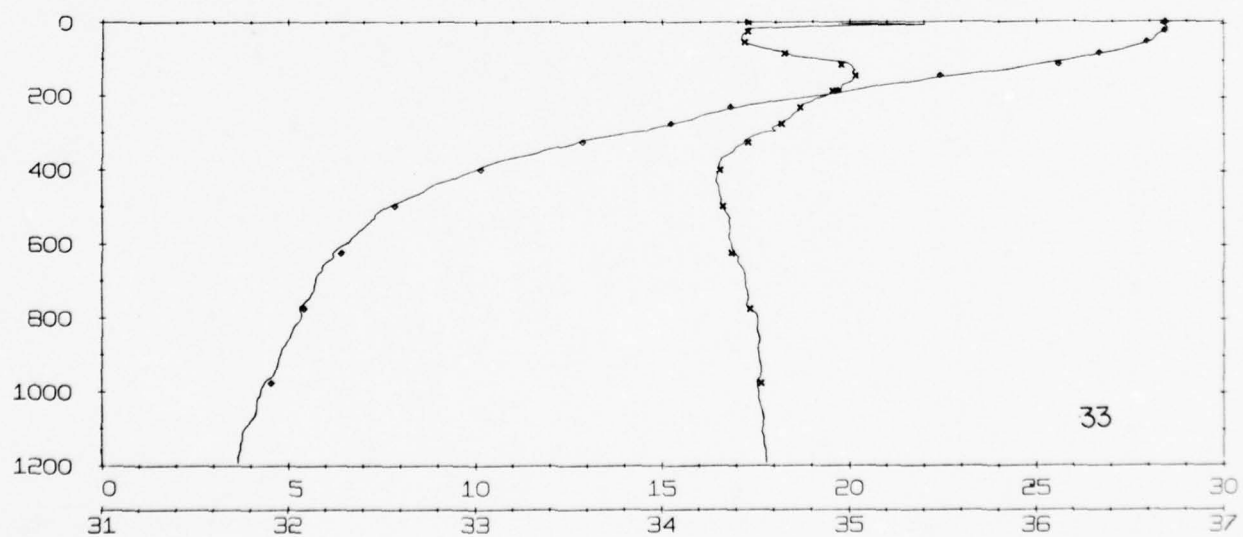
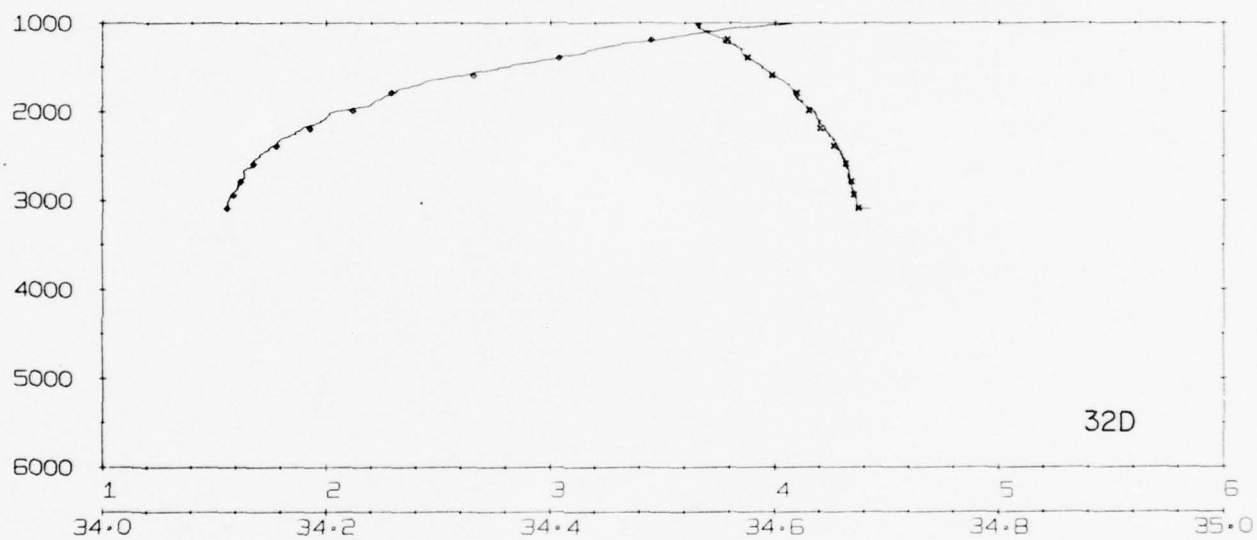
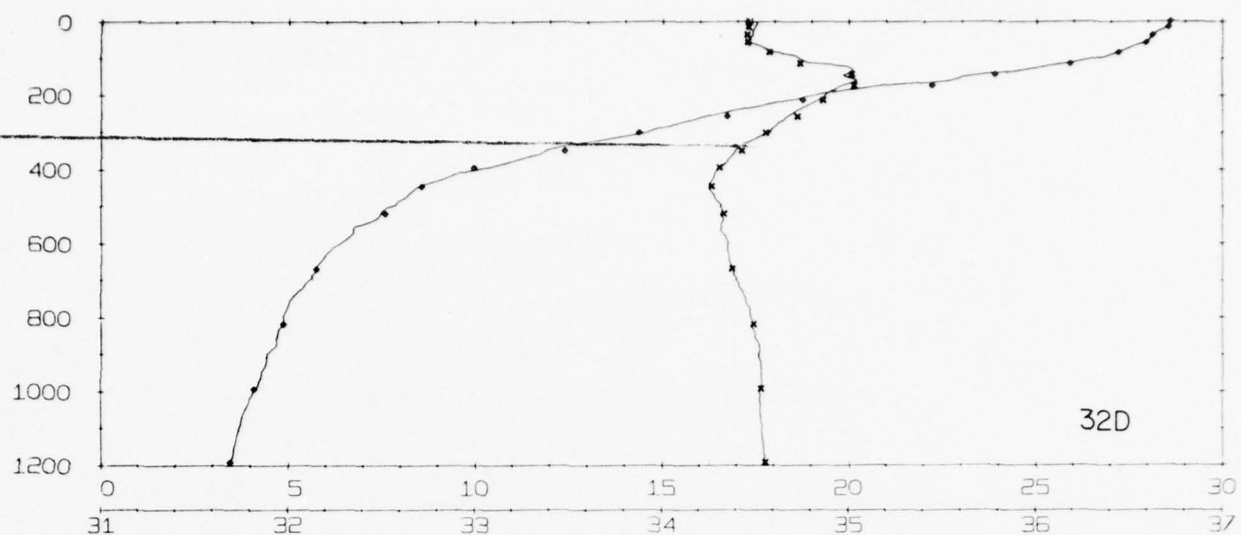
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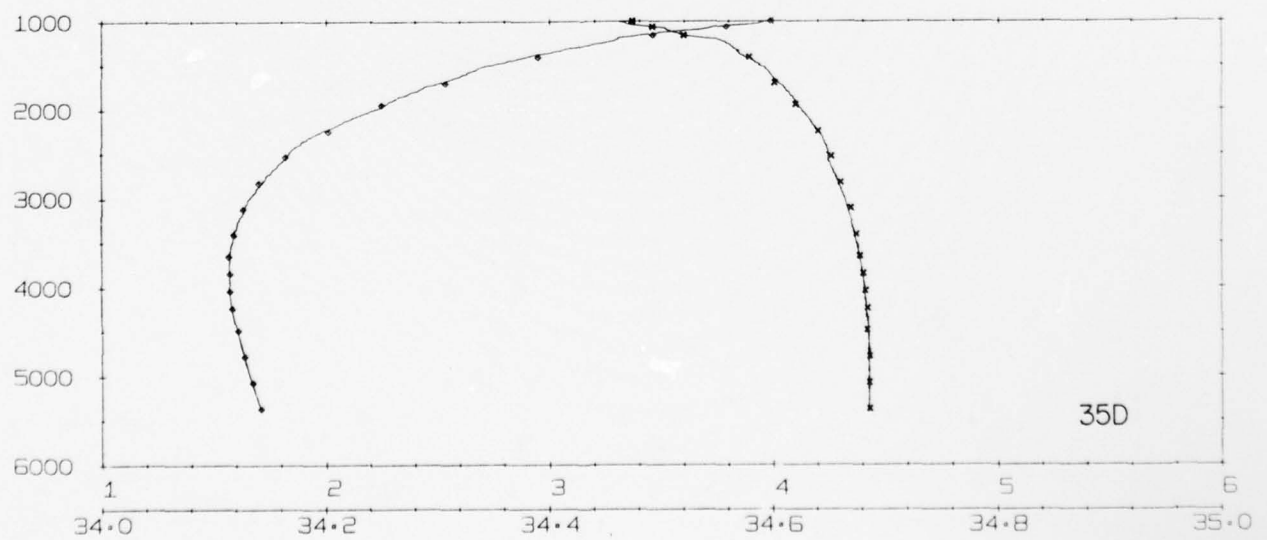
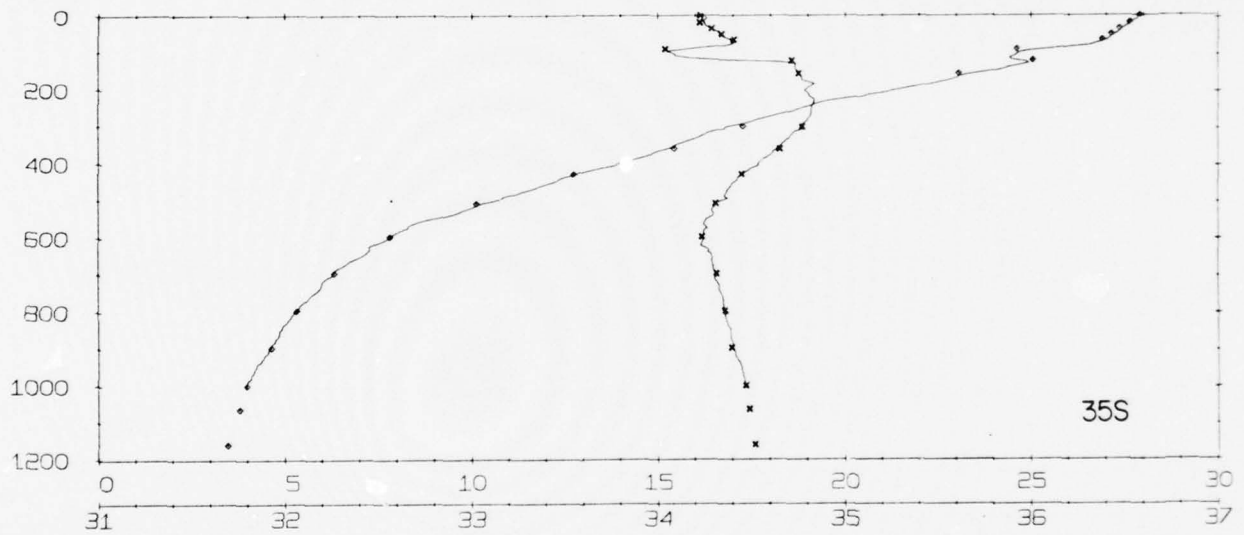
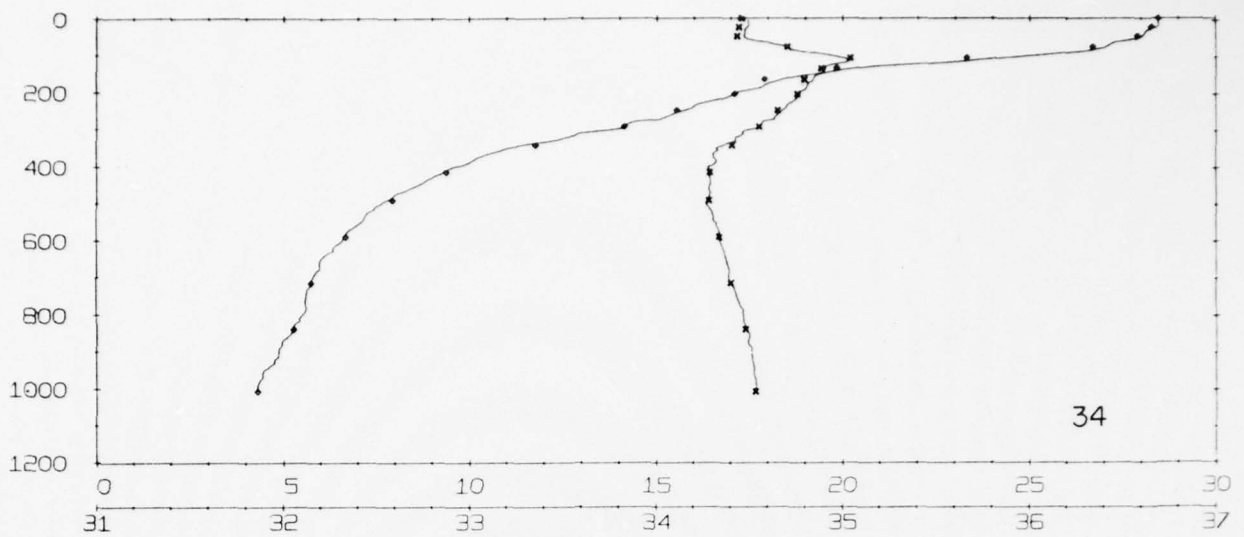
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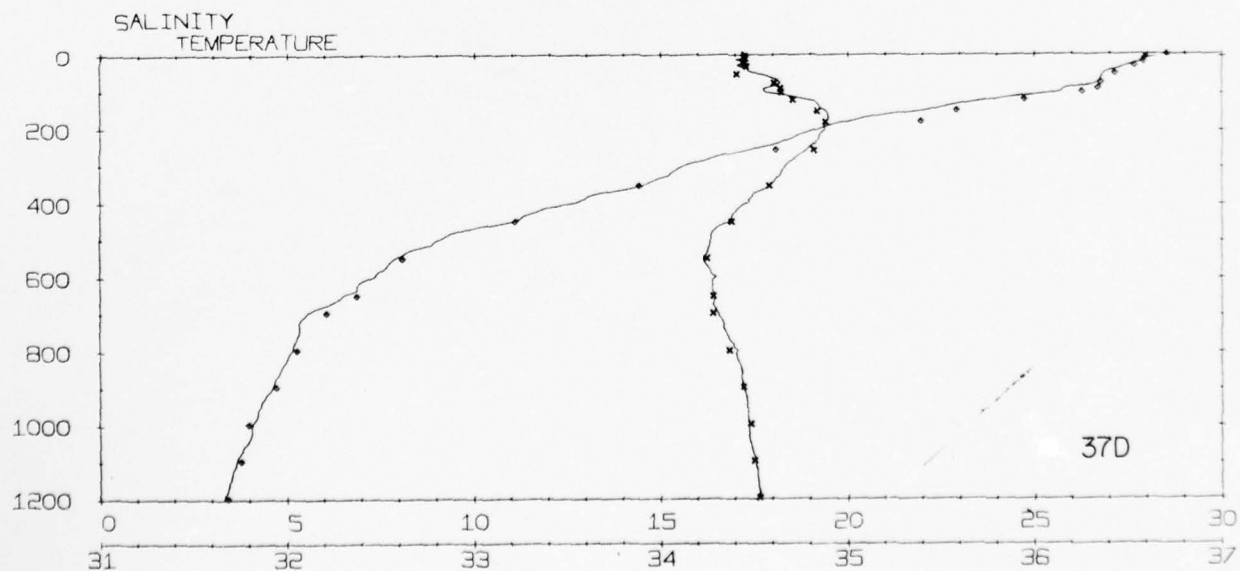
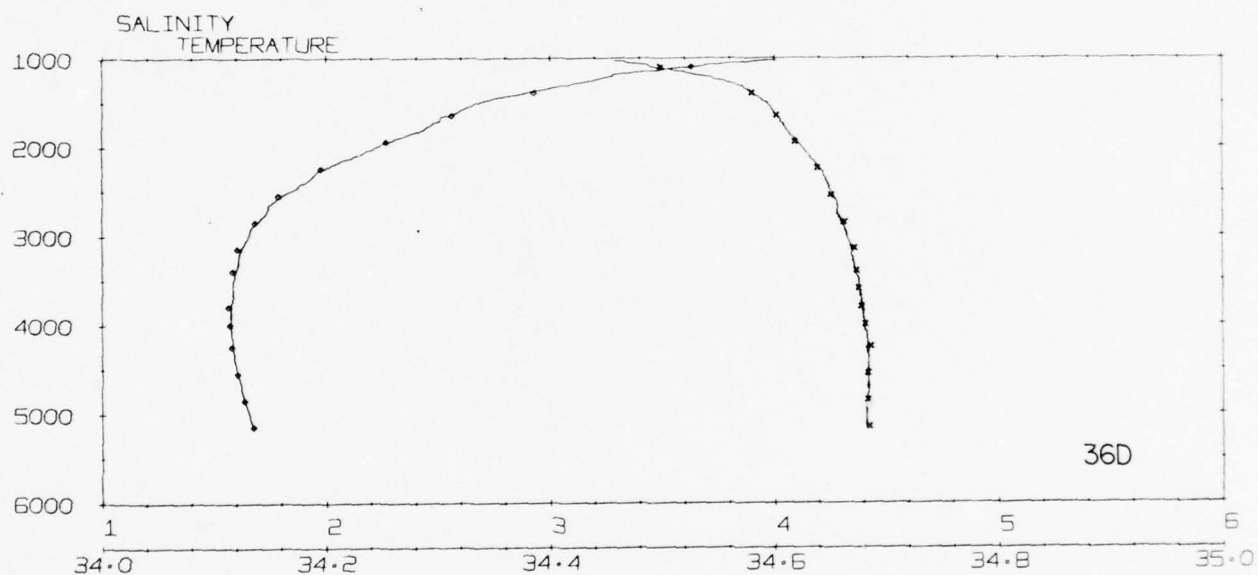
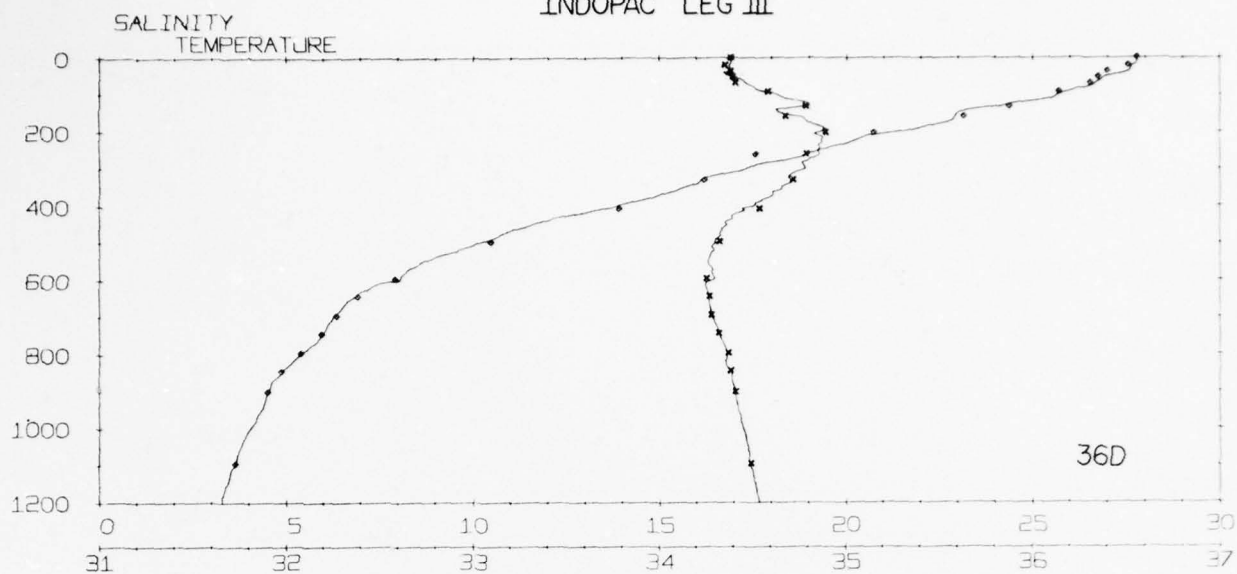
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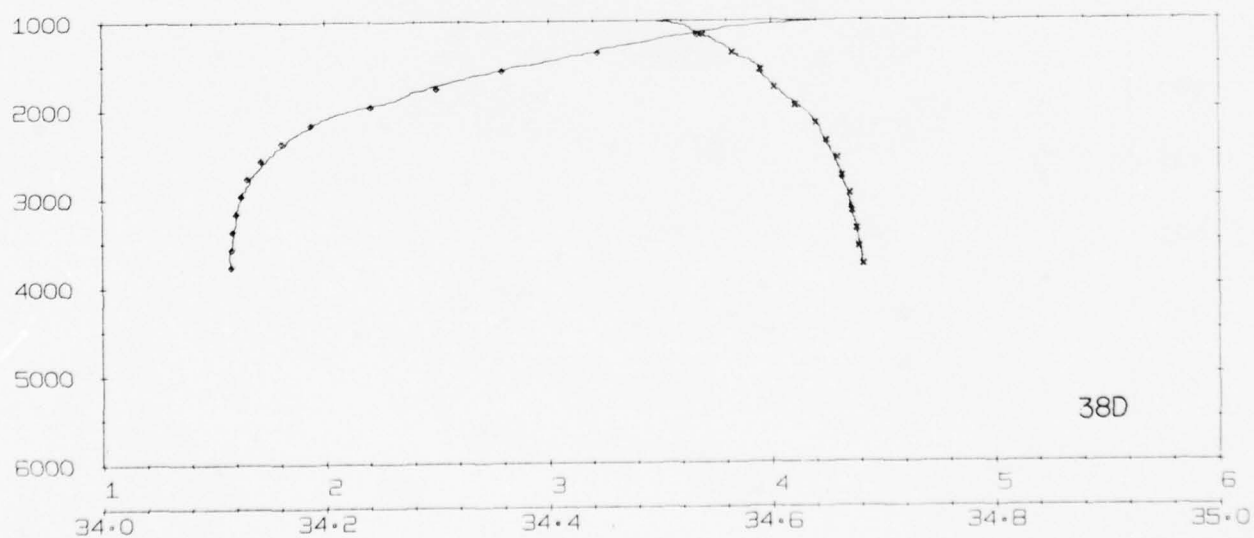
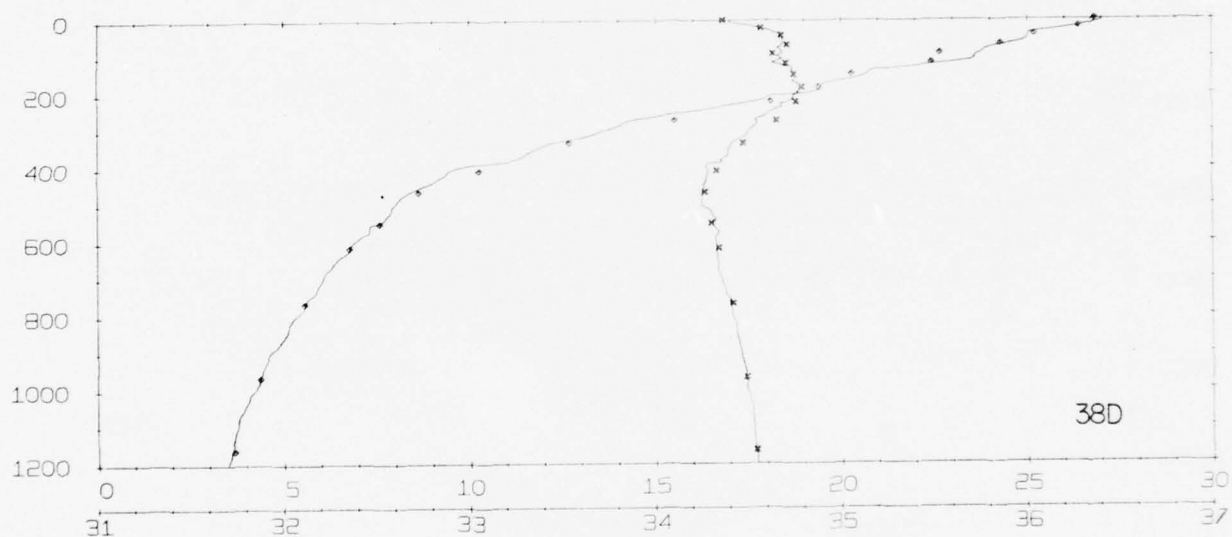
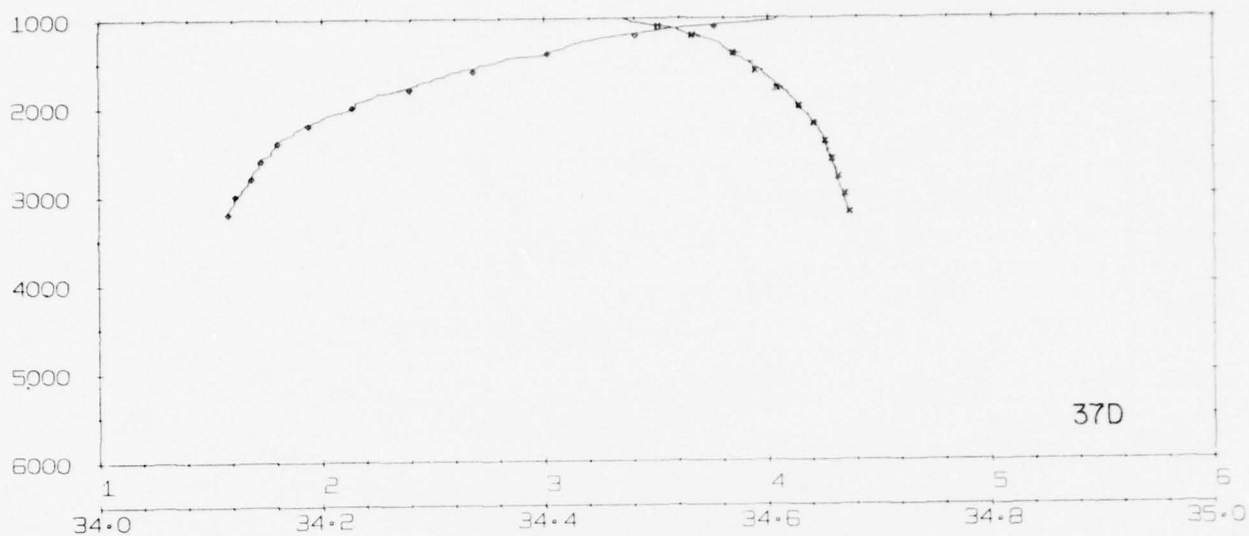
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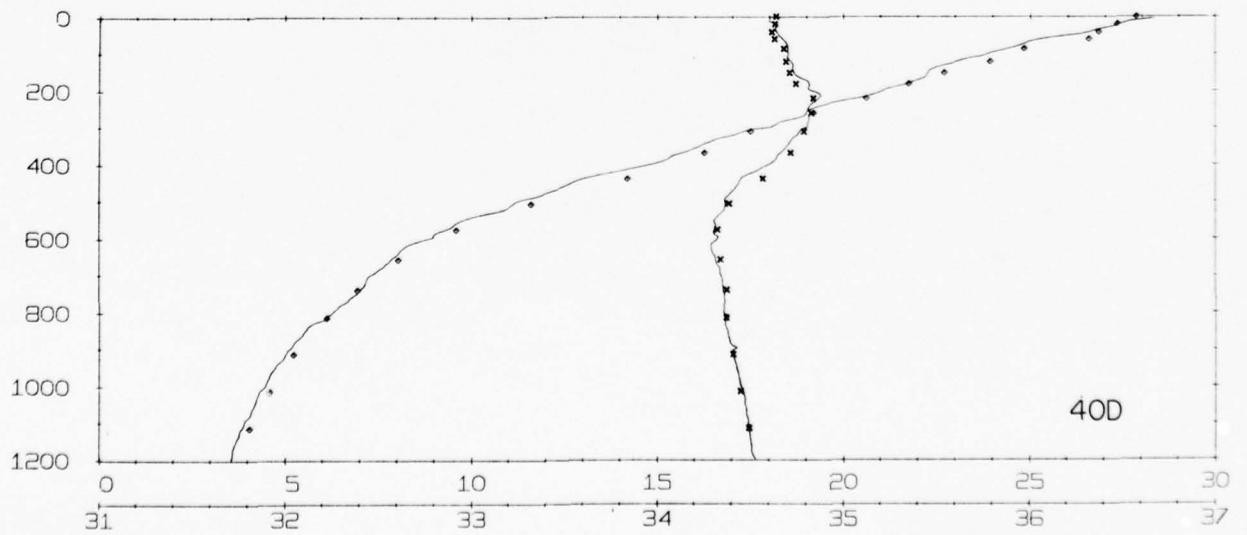
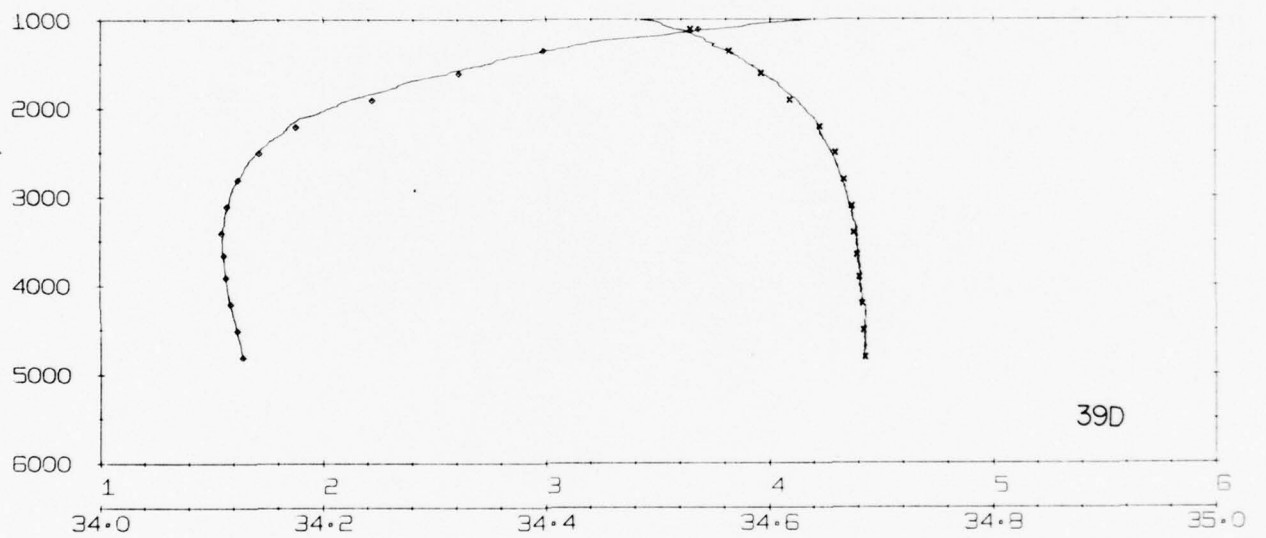
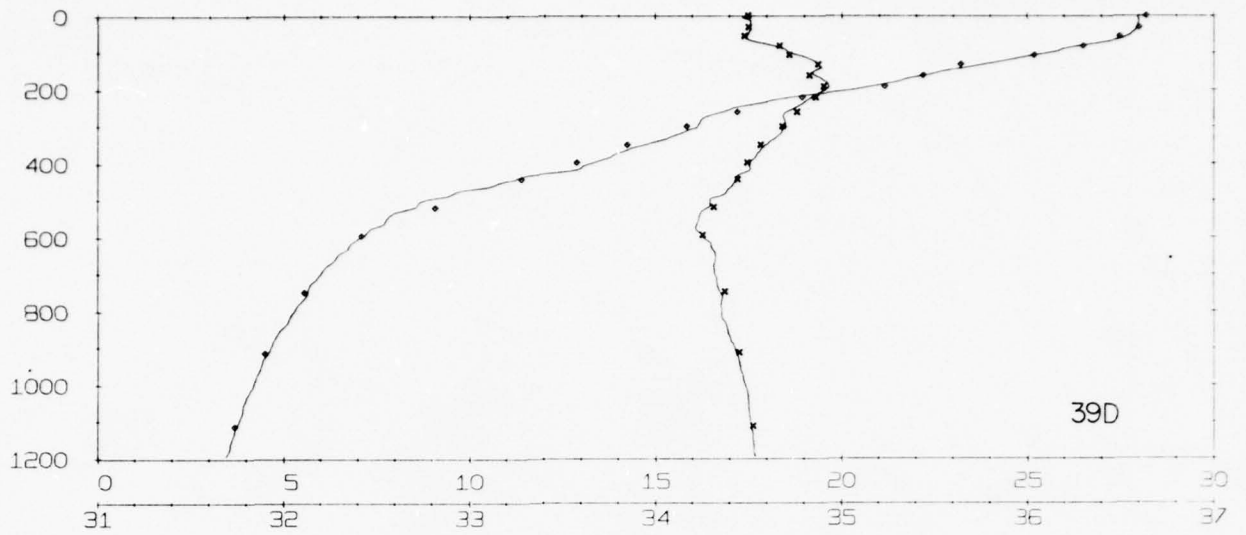
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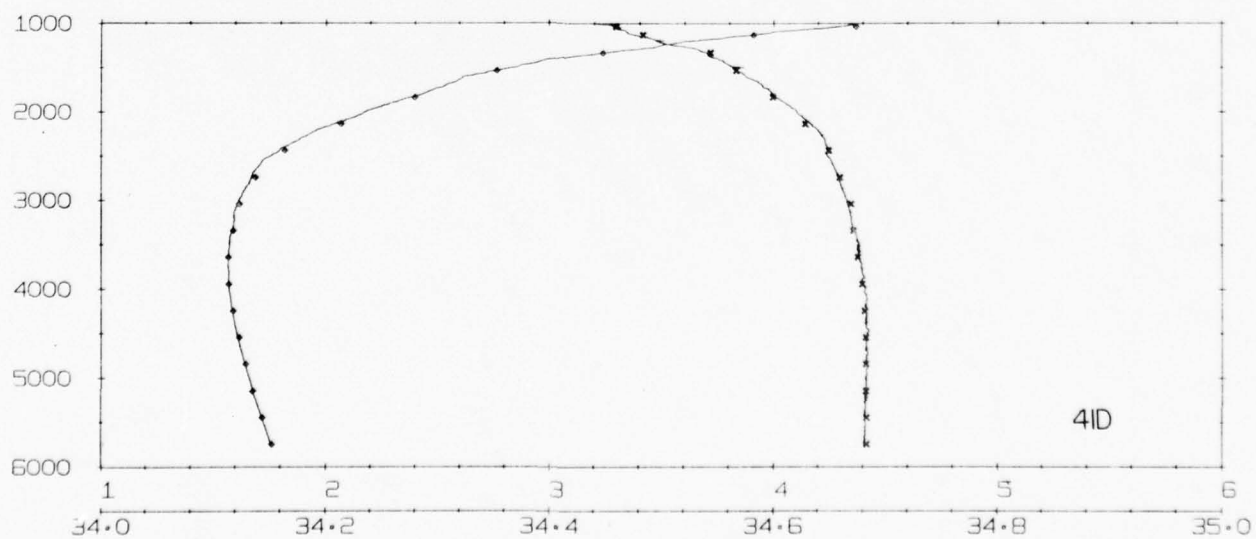
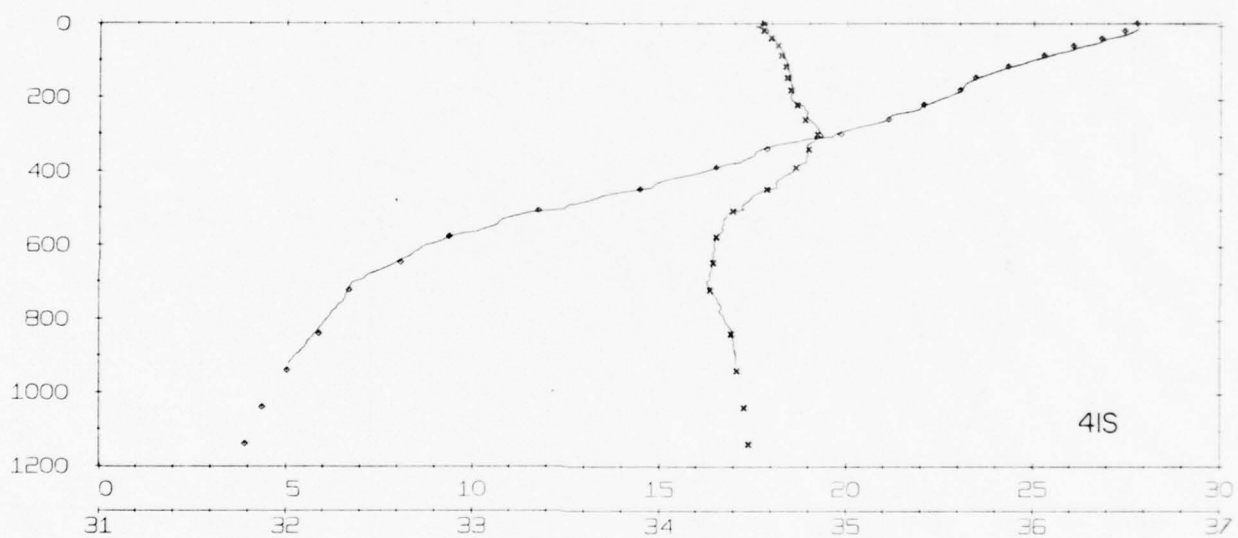
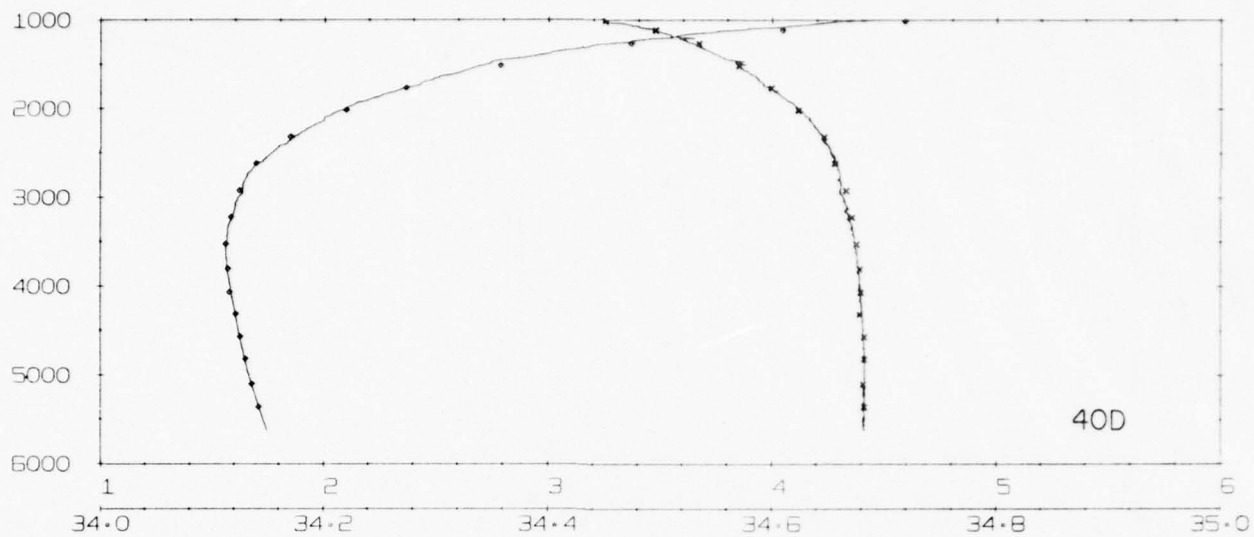
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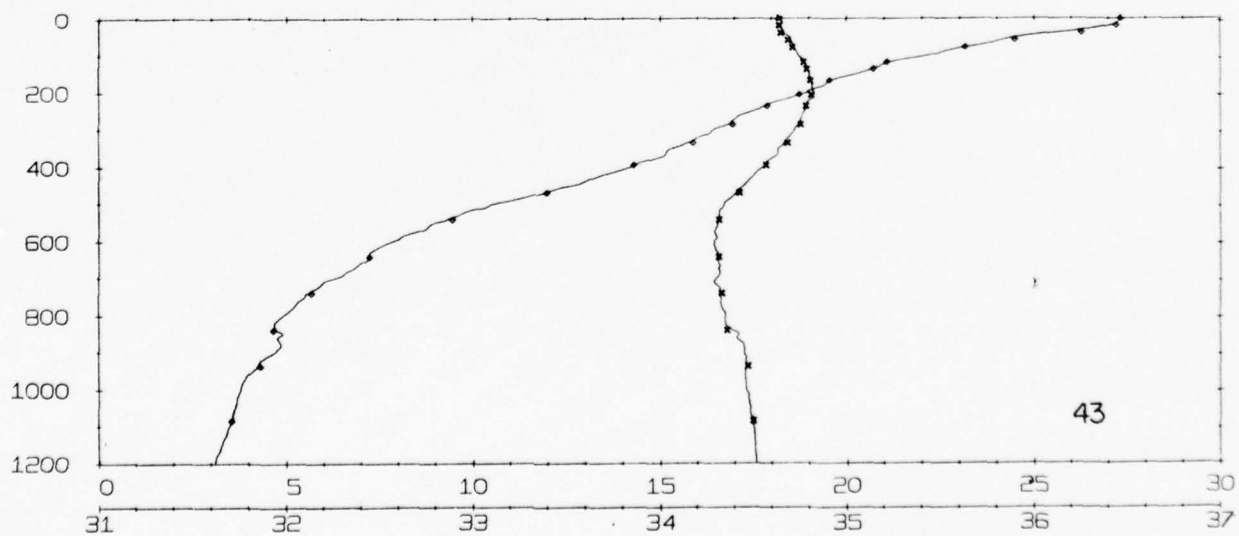
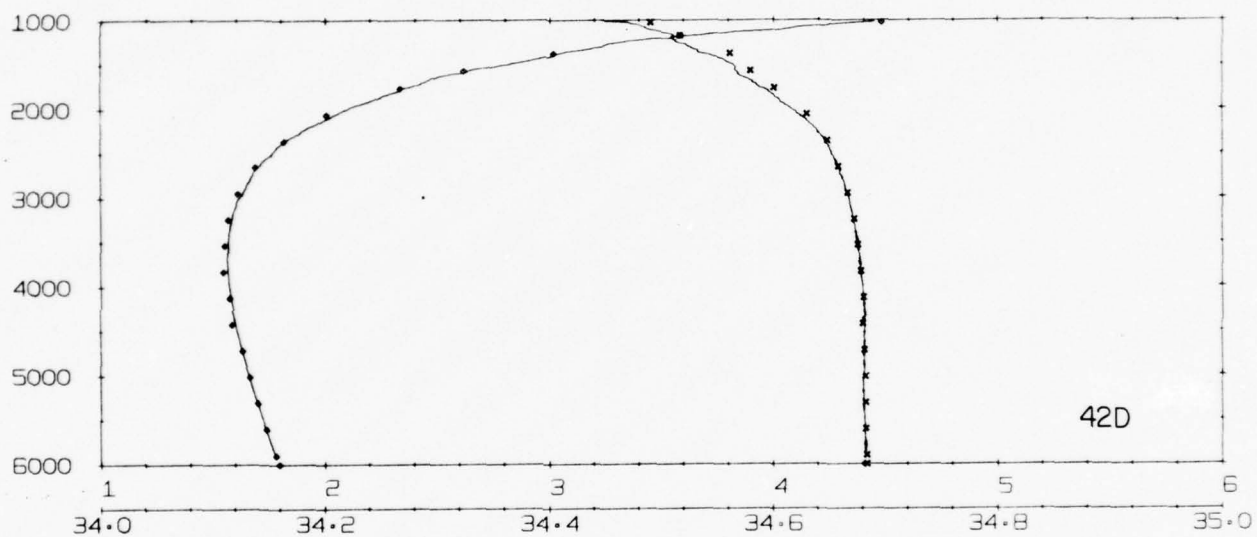
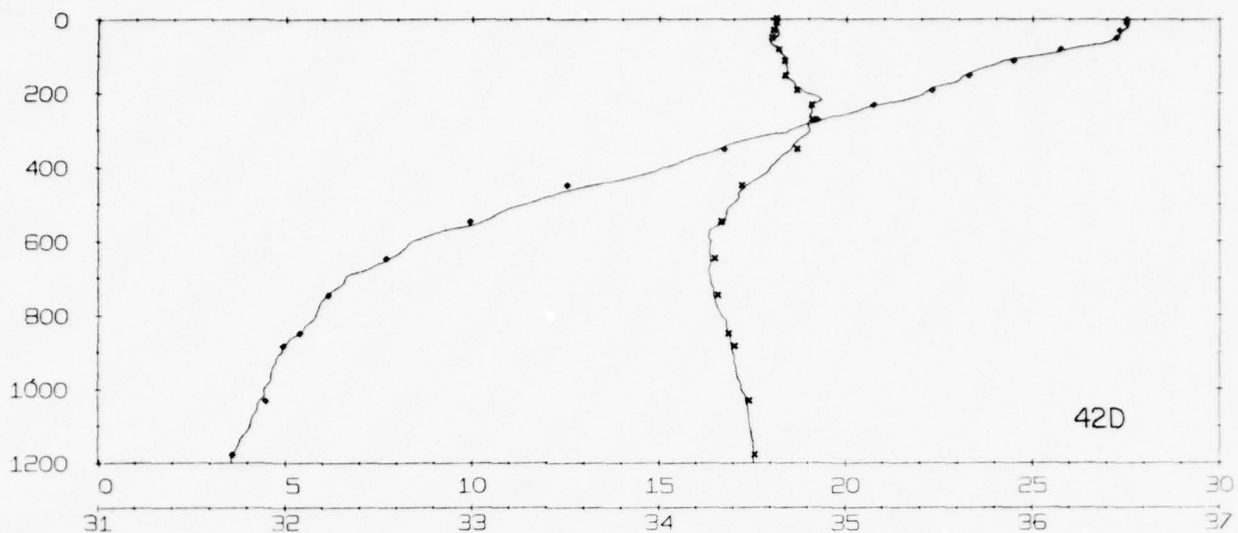
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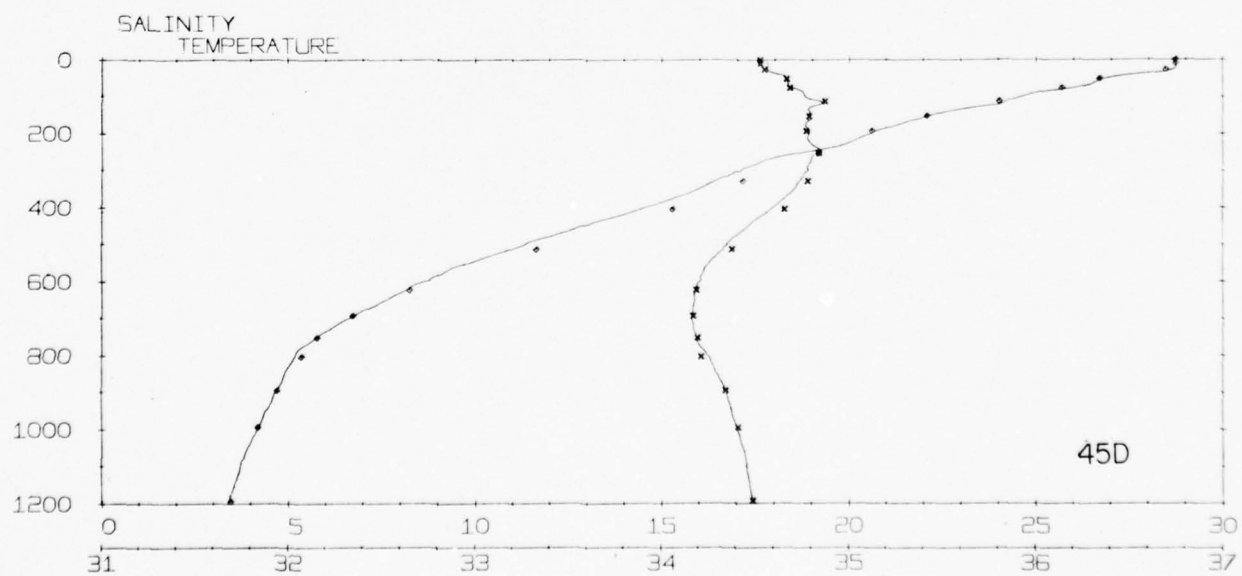
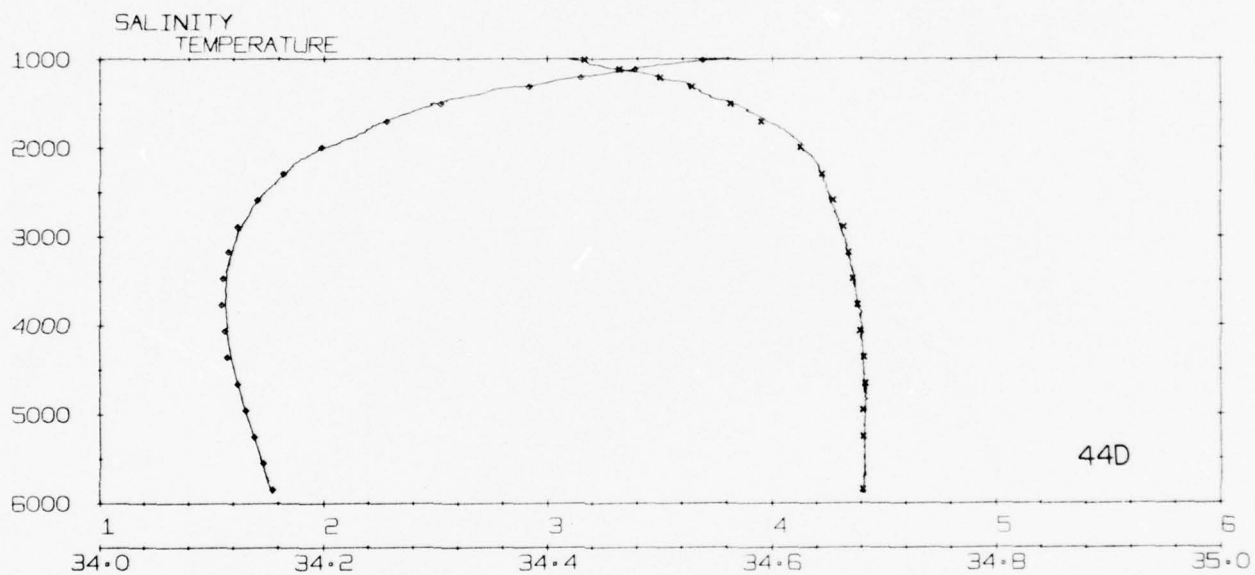
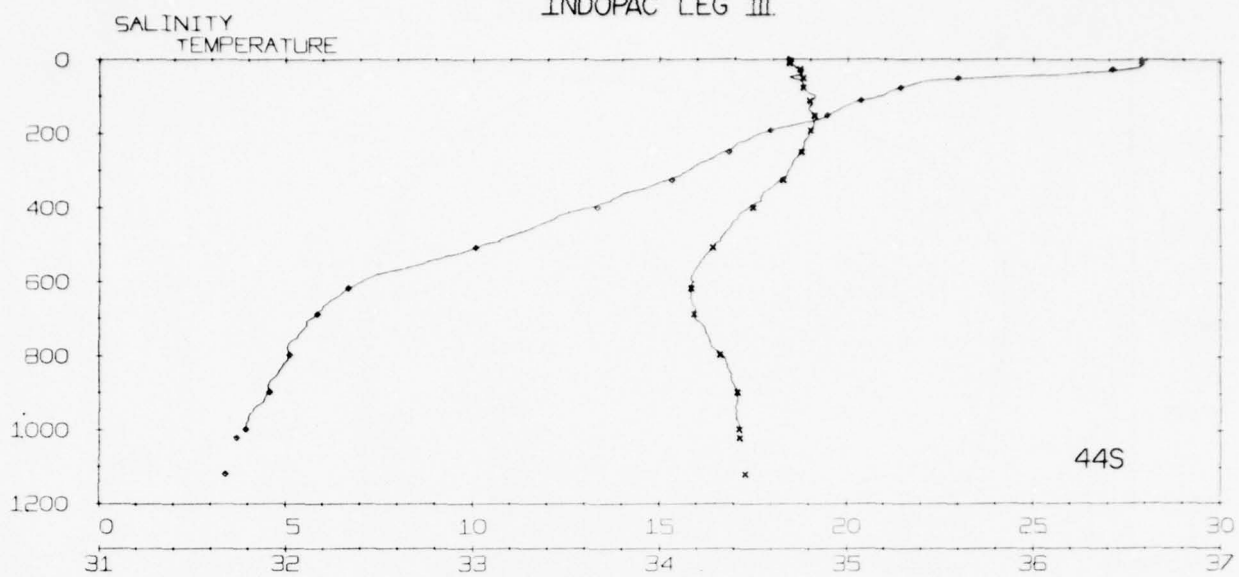
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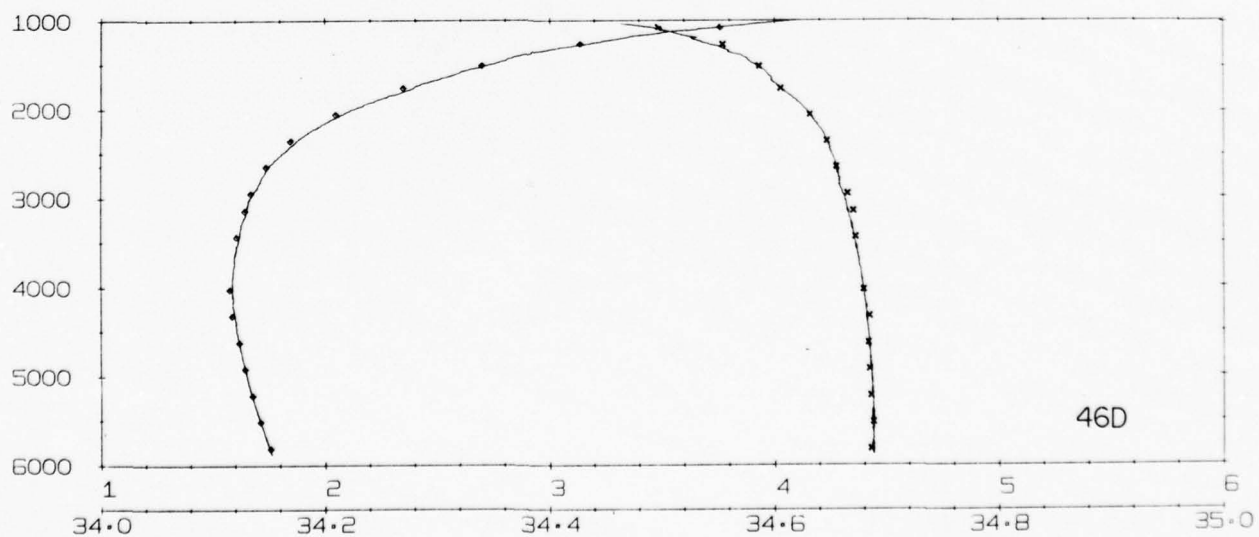
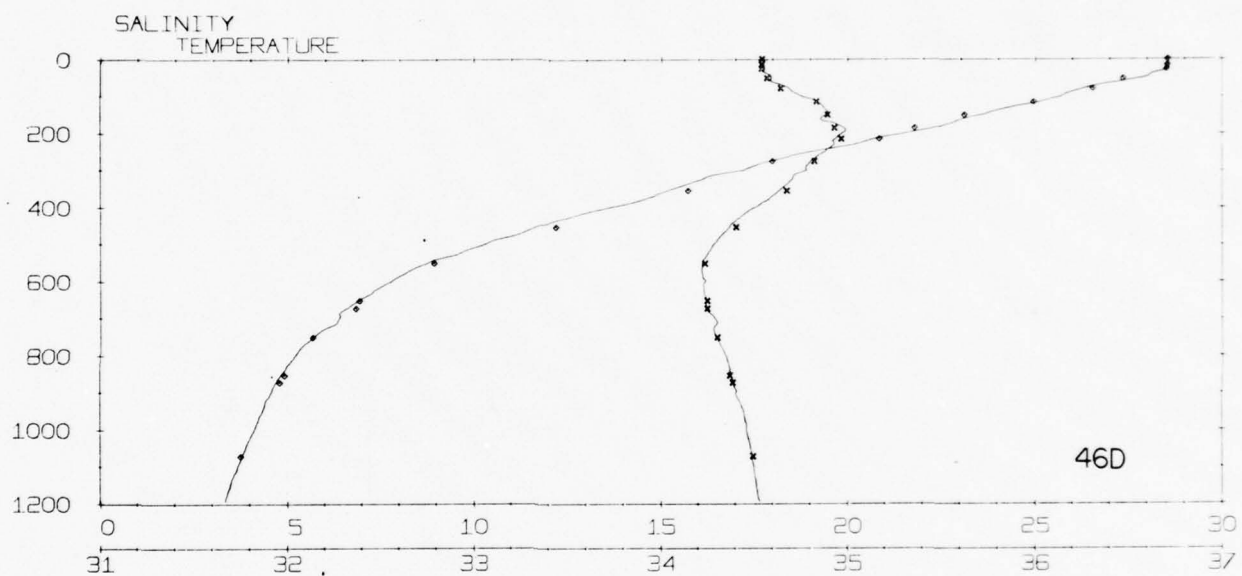
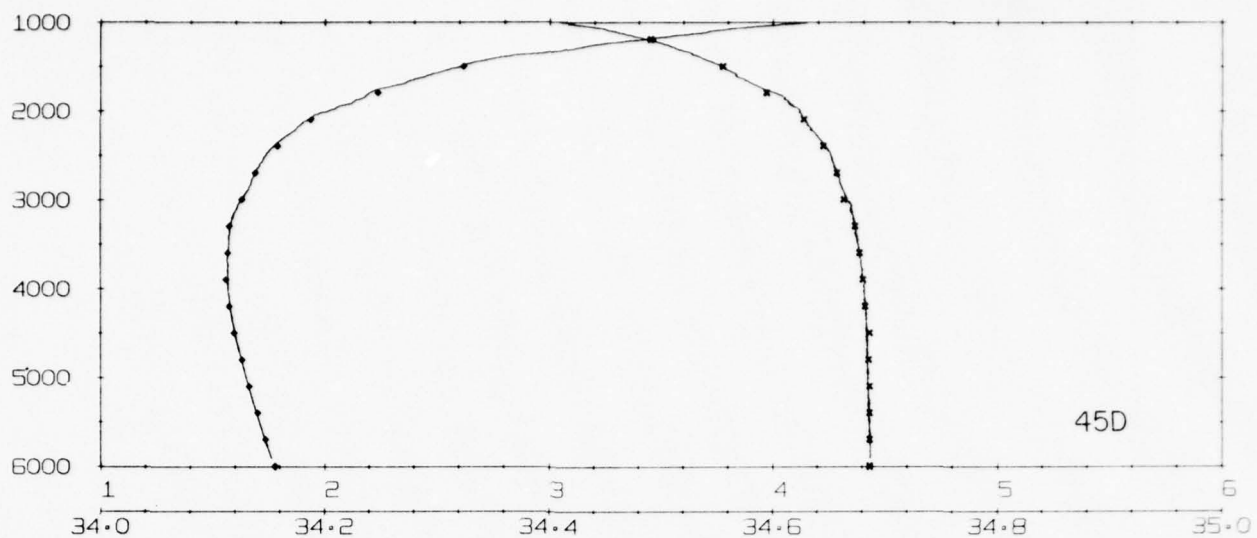
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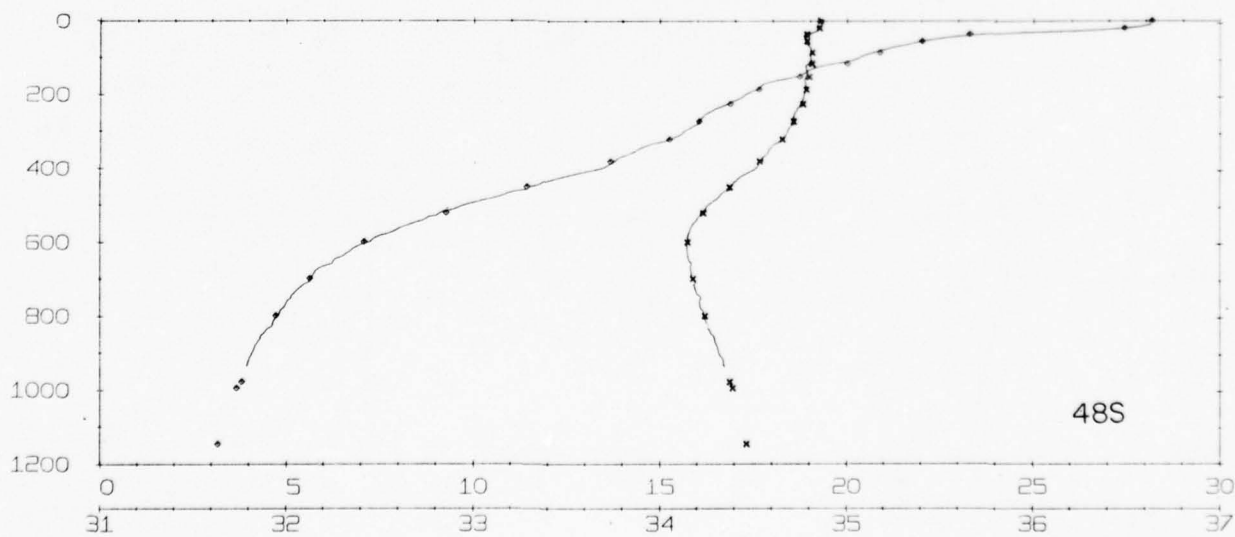
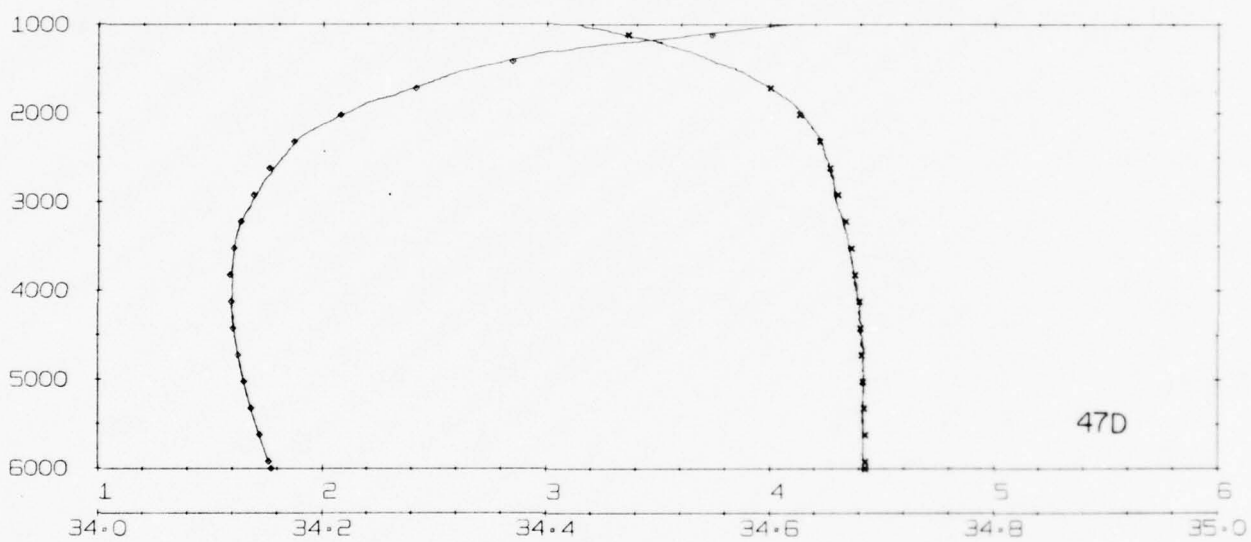
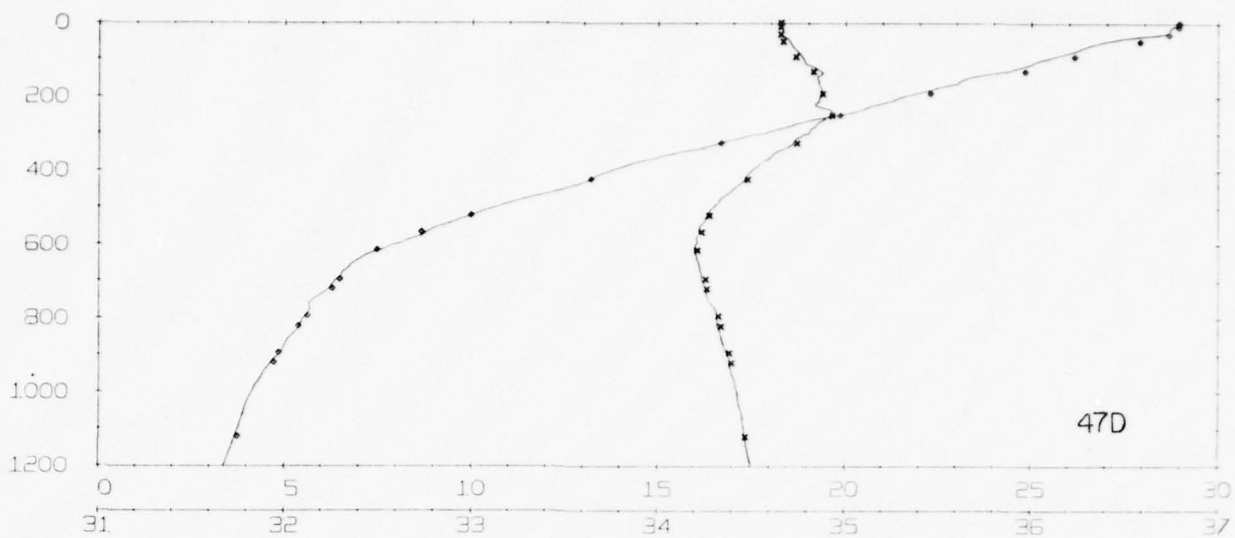
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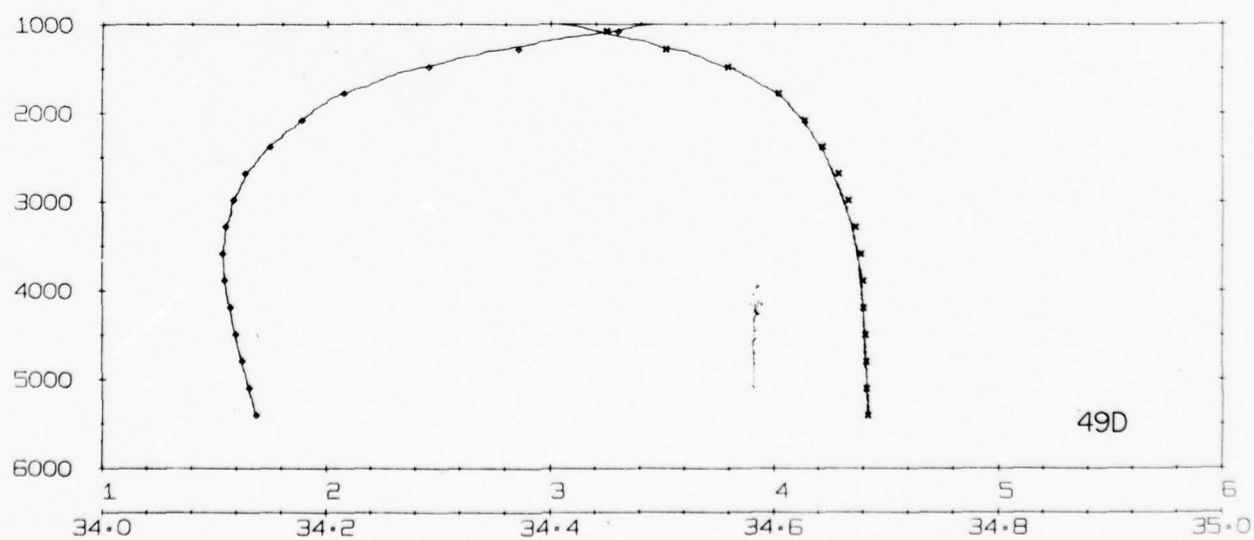
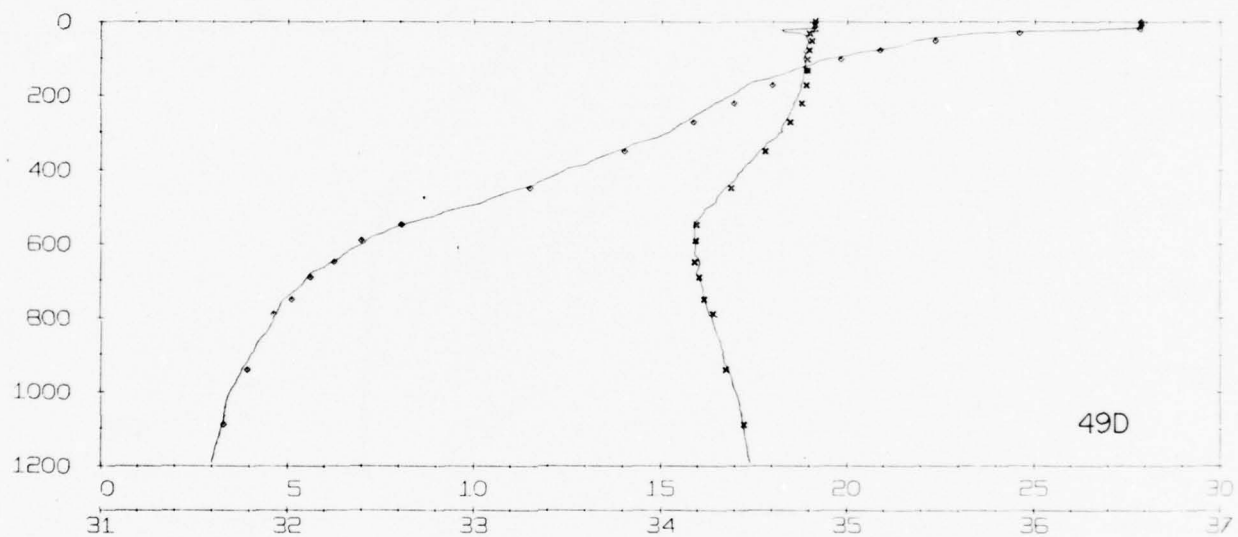
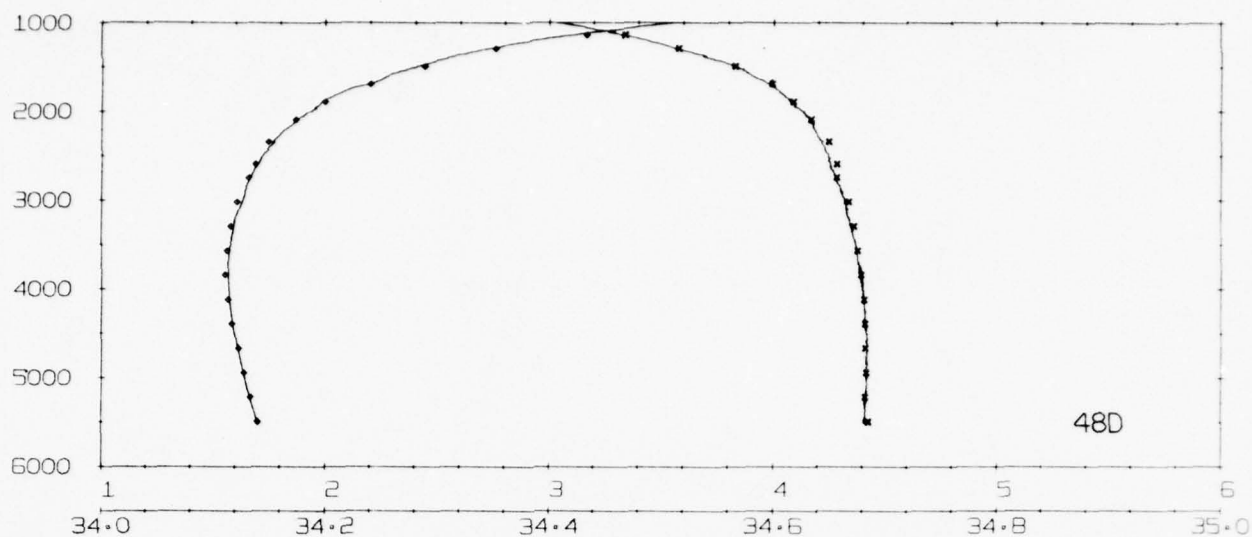
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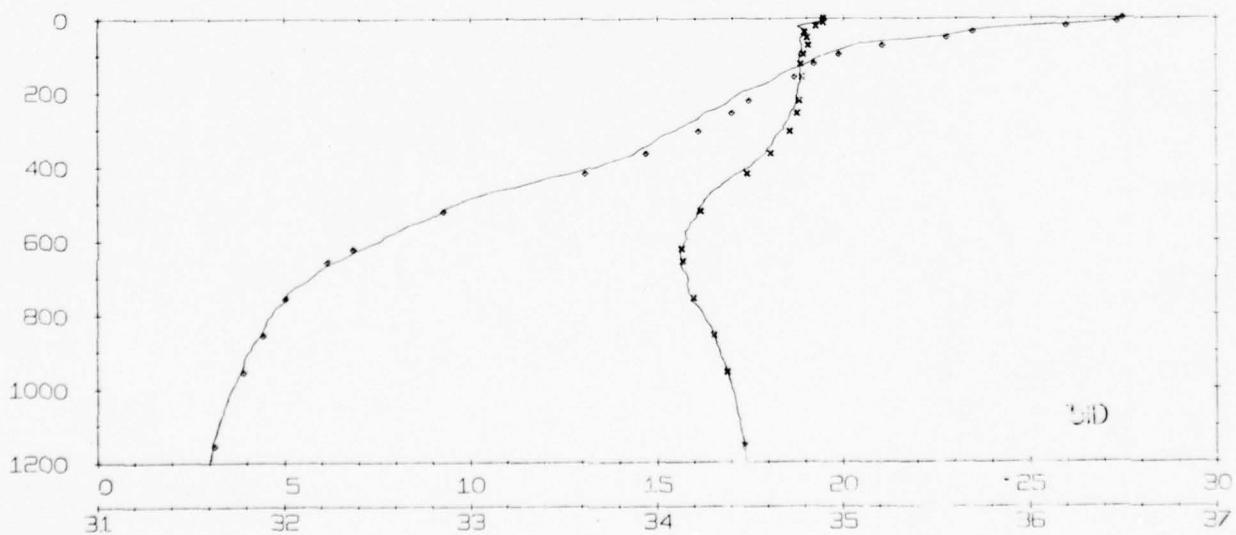
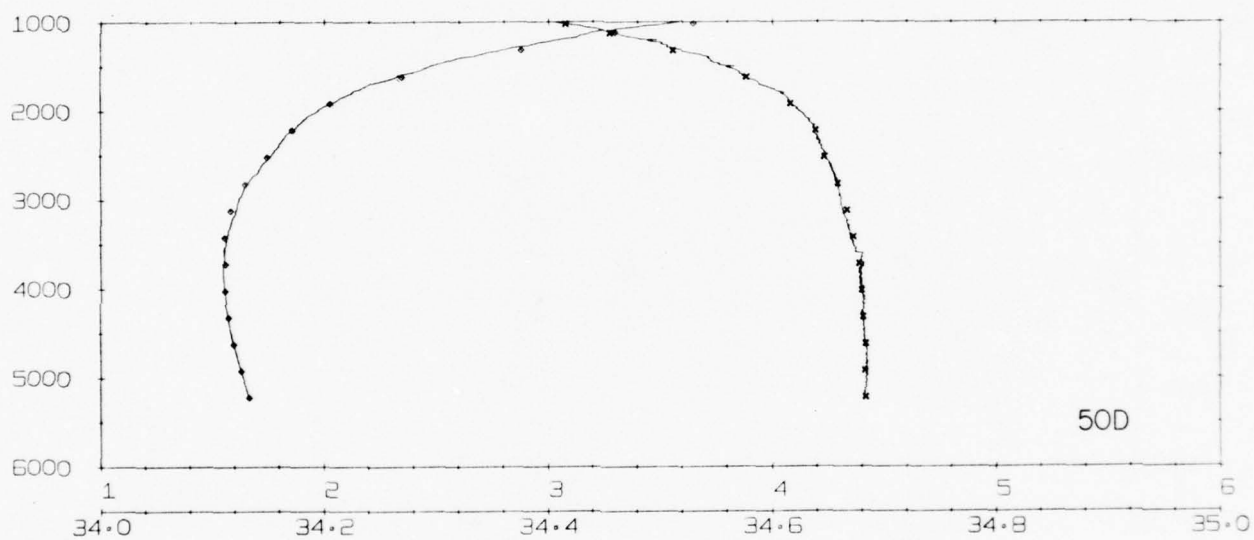
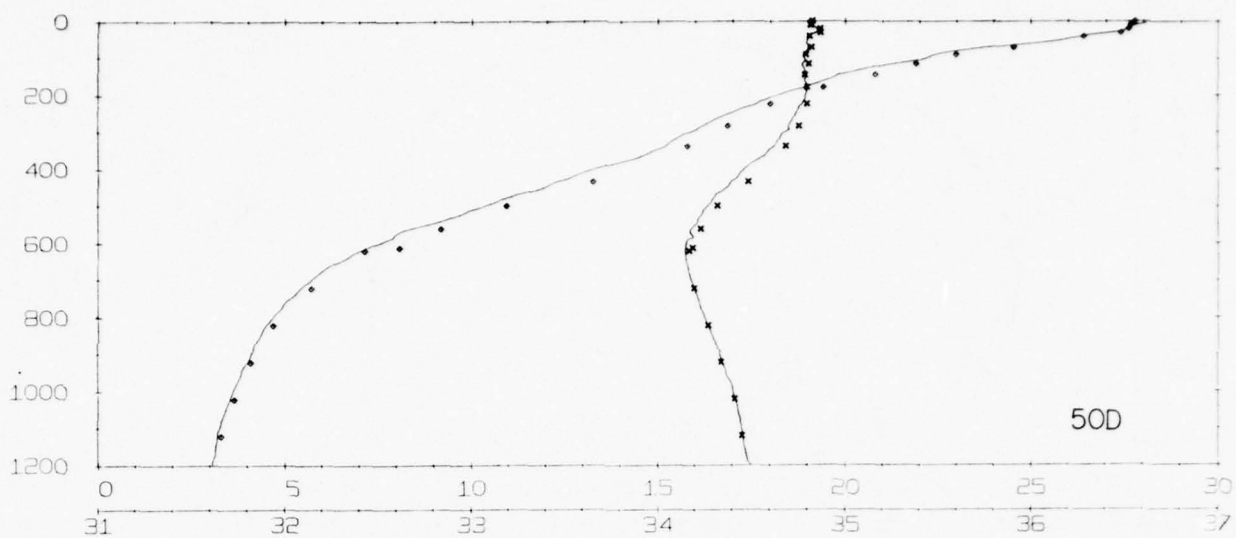
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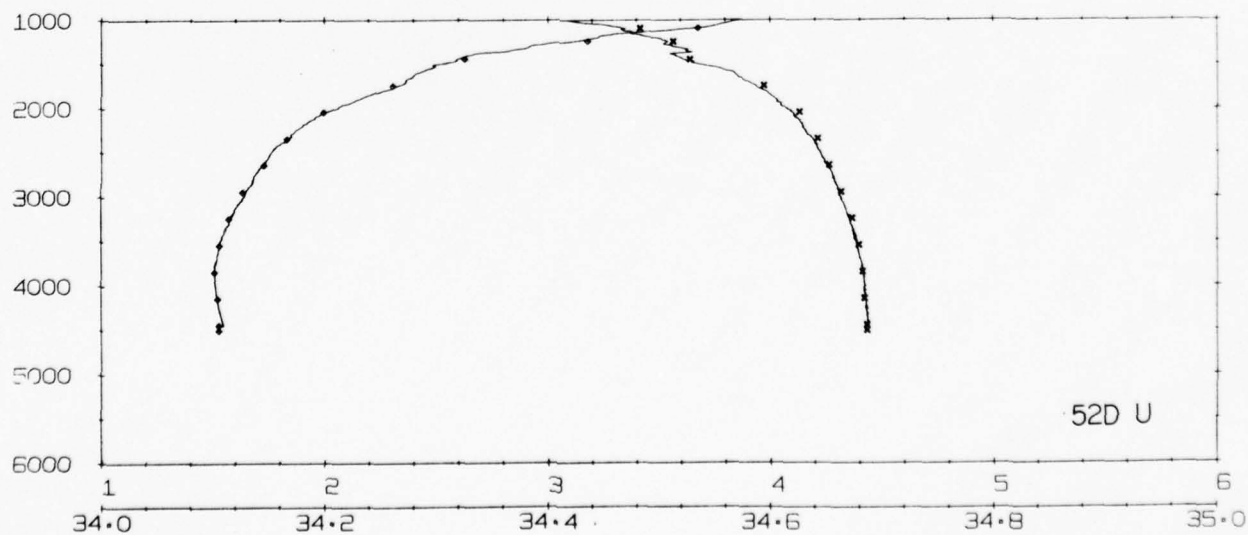
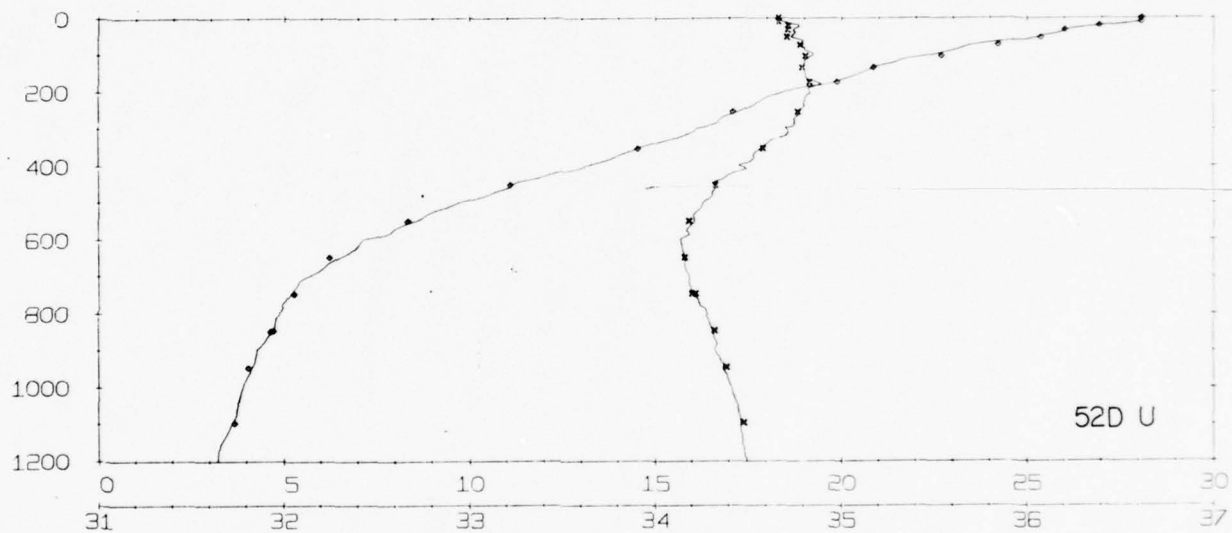
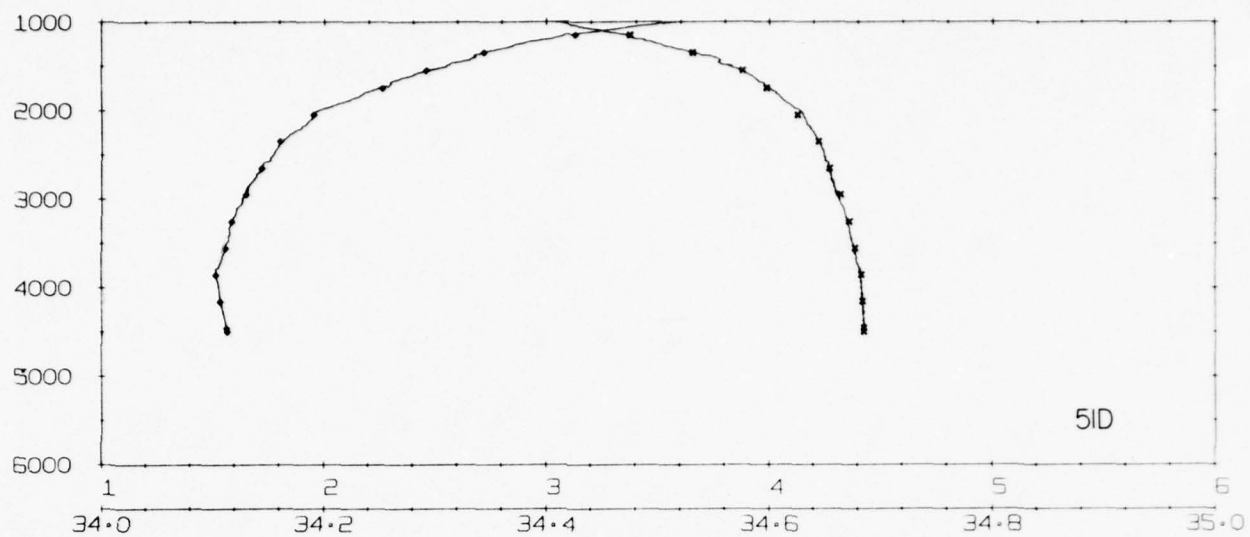
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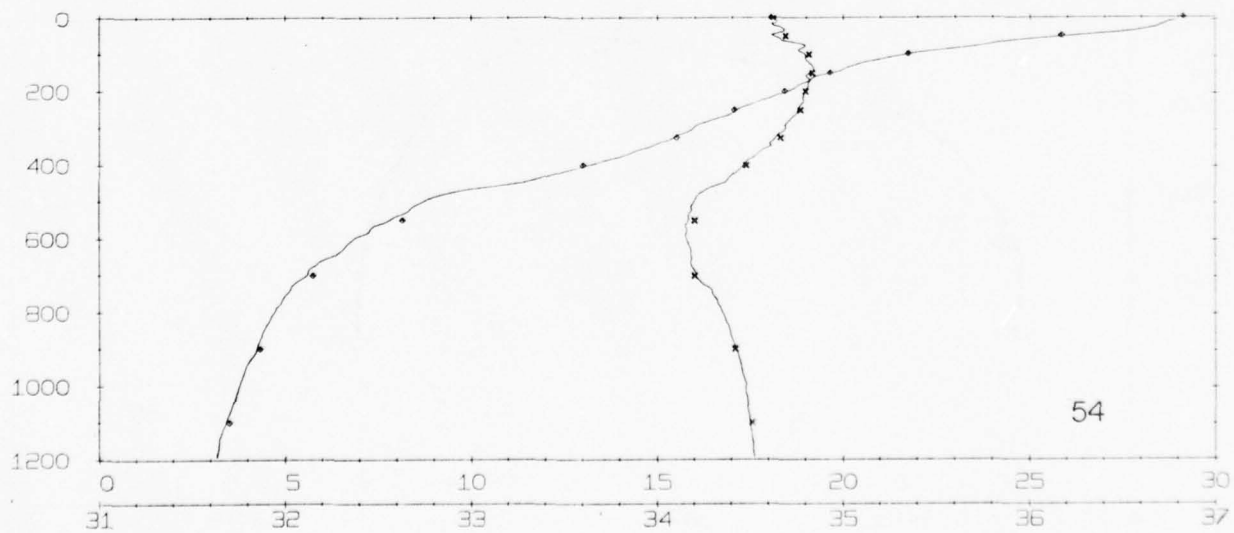
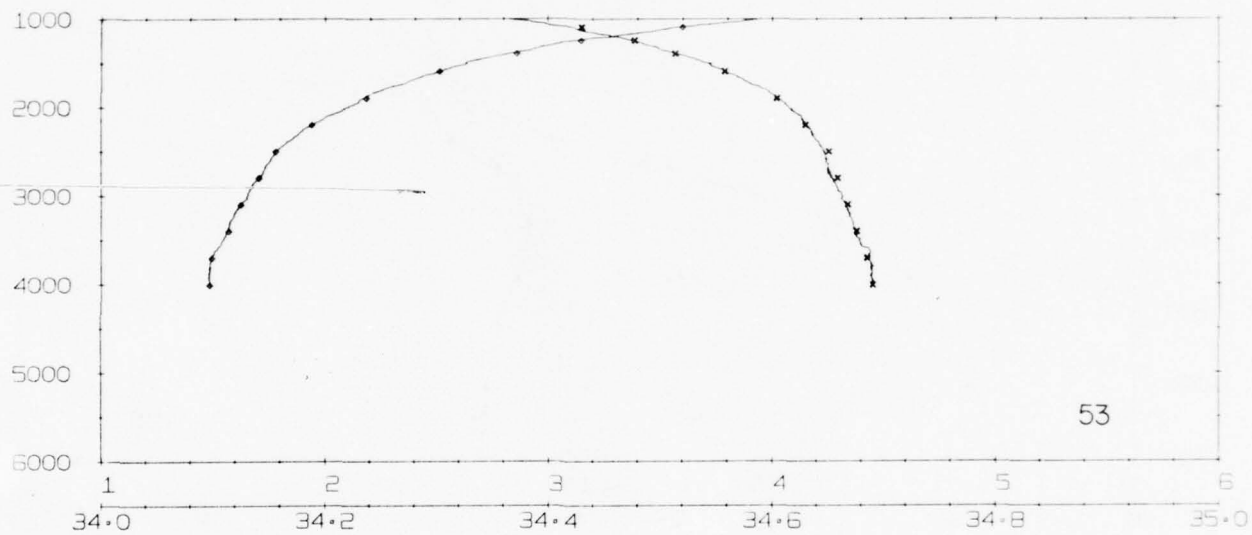
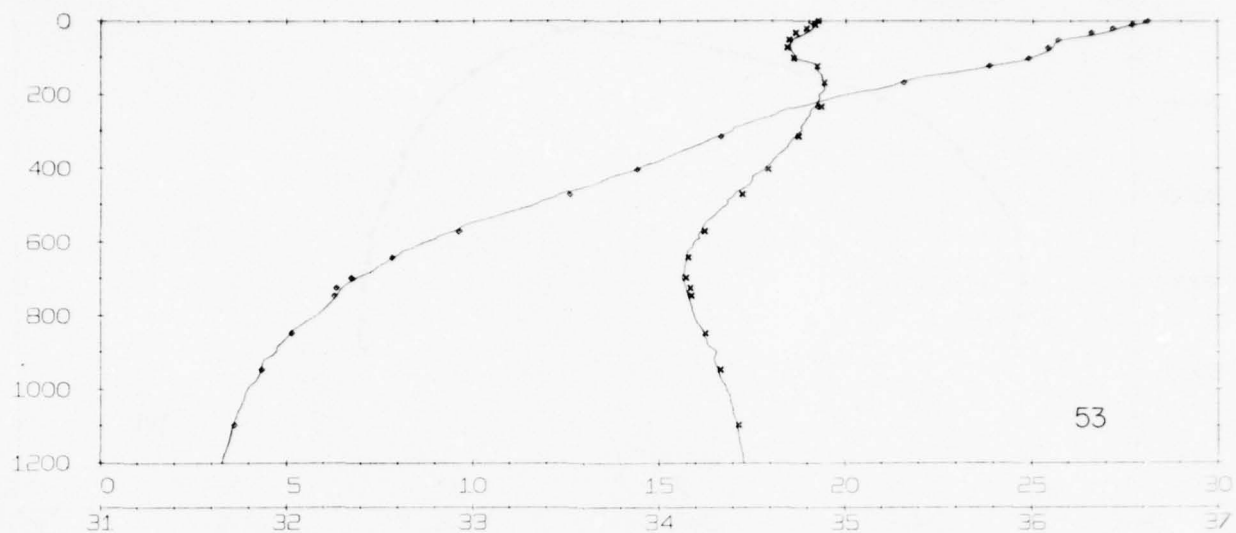
INDOPAC LEG III



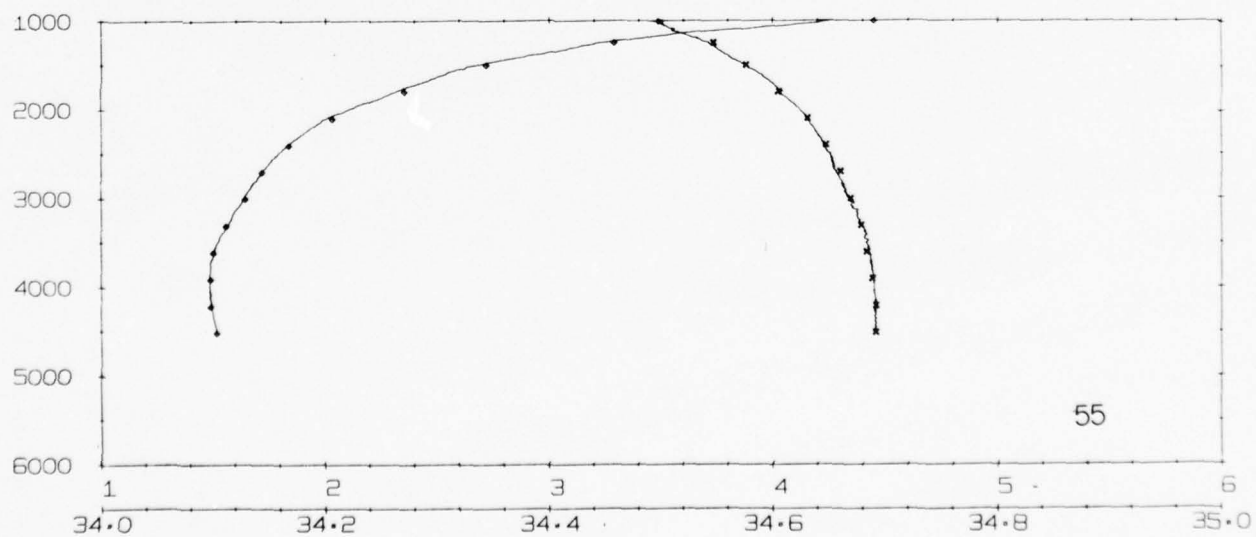
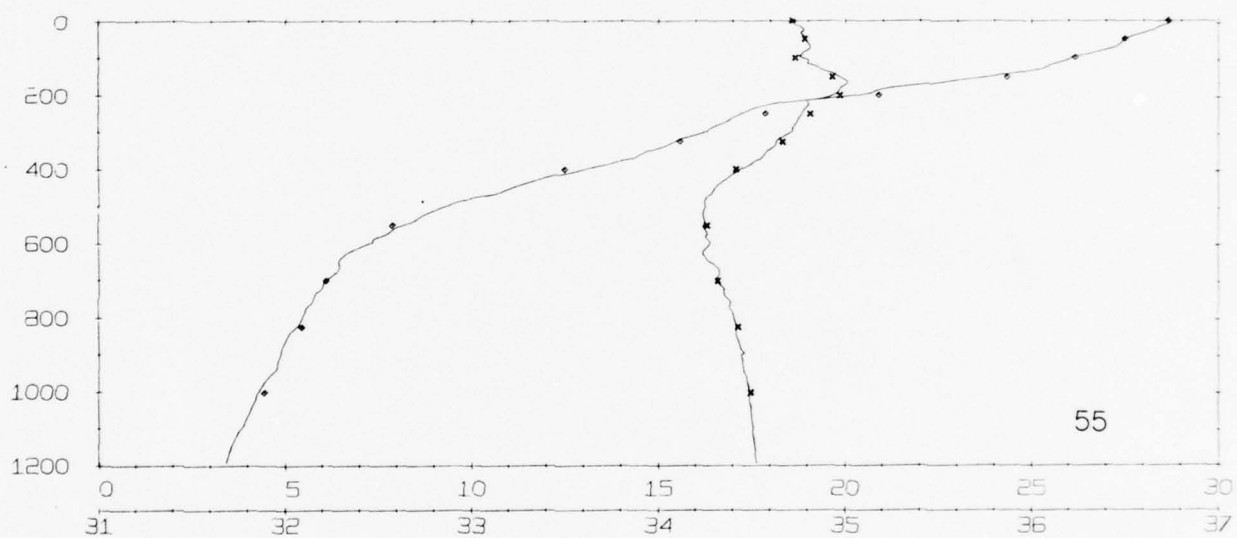
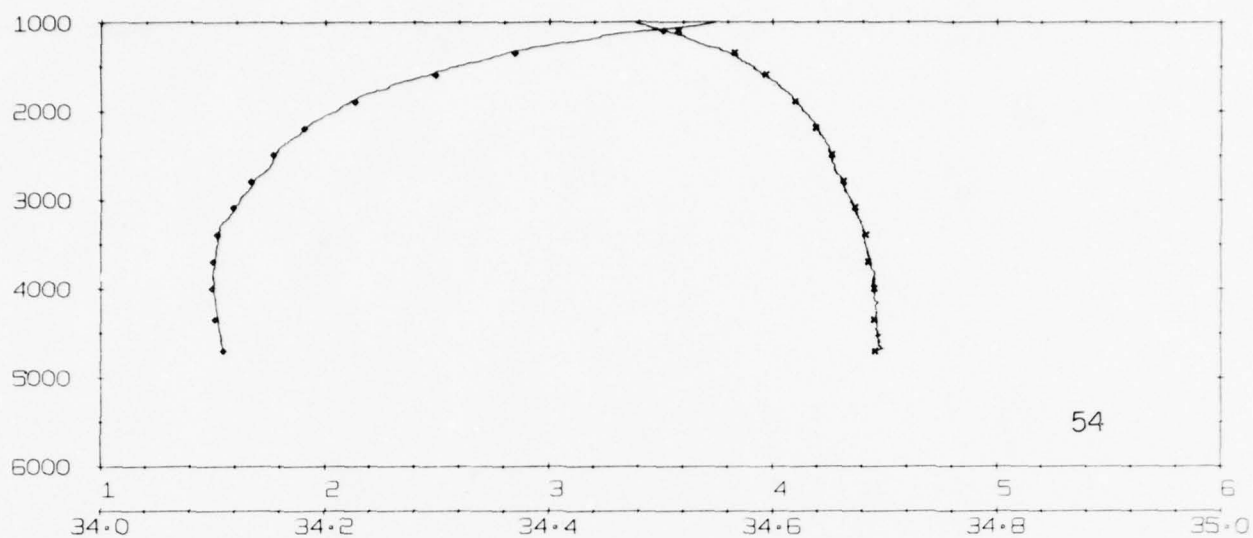
INDOPAC LEG III



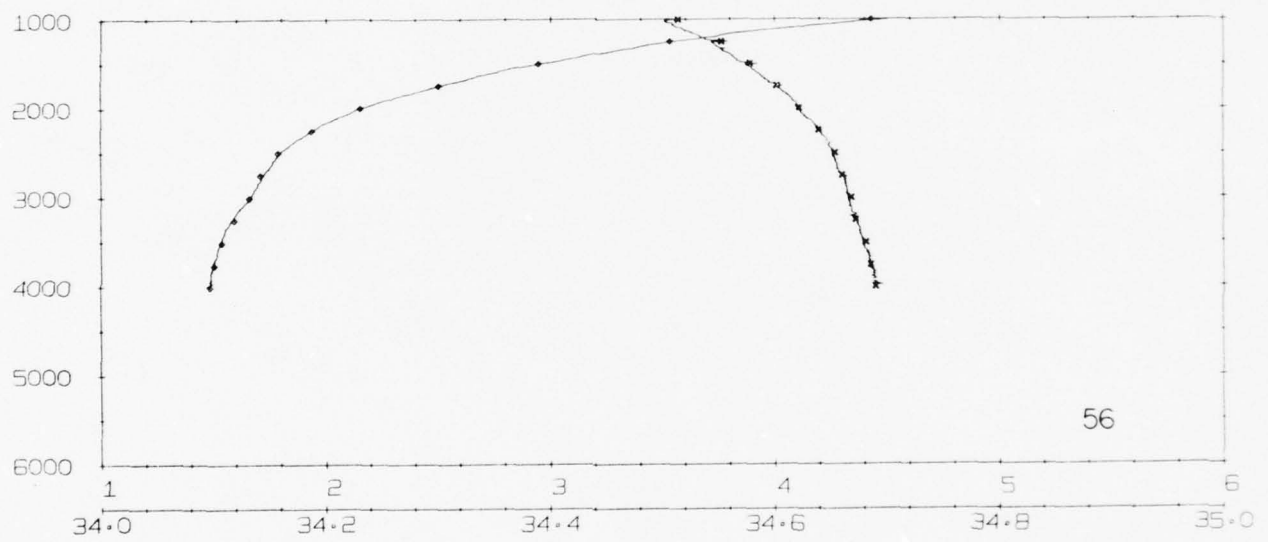
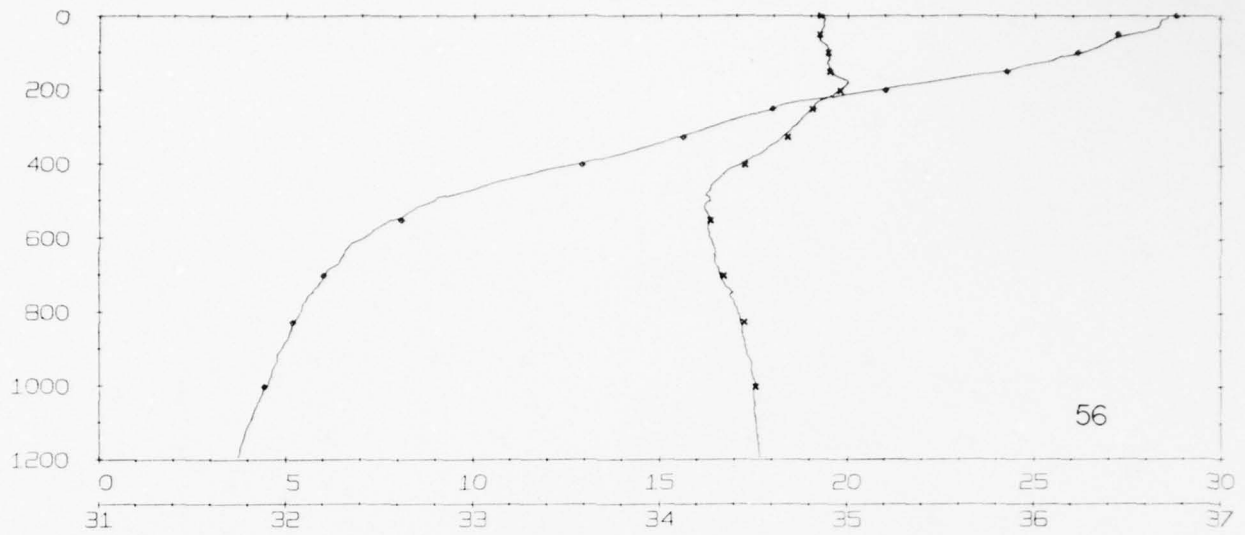
INDOPAC LEG III



INDOPAC LEG III



INDOPAC LEG III



INDOPAC EXPEDITION LEGS VII AND VIII

On INDOPAC Expedition Legs VII and VIII, nineteen hydrographic and STD casts were made and two current meters were deployed between 14 to 29 August and 2 to 30 September 1976 to study the flow of water from the Pacific to the Indian Ocean. These observations were coordinated with a similar traverse of the Lamont-Doherty Geological Observatory RV VEMA, made one month earlier, on which six of the same positions were occupied and various additional chemical measurements were made, including pCO_2 , ΣCO_2 , C^{14} , Ra^{228} , and Rn^{222} .

A major portion of both legs was devoted to geophysical work.

INDOPAC Expedition Legs VII and VIII were sponsored by the Office of Naval Research.

All salinities were run on the University of Washington conductive salinometer.

The STD had some salinity spiking associated with stopping to hang bottles on the wire. These were removed from the tabulated data but still appear in some of the plots.

Data are presented as tabulated data and curves of temperature and salinity versus depth from the STD with observed sample bottle data plotted for comparison.

The curve for station 1D 2 U has a different temperature scale from the other deep stations because of the unusually warm deep water in the Sulu Basin.

PERSONNEL

Ship's Captain: Arsenault, Albert RV THOMAS WASHINGTON

Personnel Participating in the Collection of Data:

Silver, Eli A. Dr. (7)	Chief Scientist, Associate Professor, University of California, Santa Cruz (UCSC)
Shor, George G. Dr. (8)	Chief Scientist, Professor, SIO
Batthey, Roger K.	Electronics Technician, SIO
Berry, Ronald F. (8)	Graduate Student, Australia
Chao, Benjamin F.	Graduate Student, SIO
Coatsworth, James L.	Resident Marine Technician, SIO
Costello, James P. (7)	Staff Research Associate, SIO
Das Gupta, Tirthanker (8)	India
Ferreira, Simon M.	Electronics Technician, SIO
Golding, Terry (7)	Oceanographer, Australia
Jacobson, Randell S.	Graduate Student, SIO
Joyodiwiryo, Yoko	Indonesia
Karta, Komar	Indonesia
Kieckhofer, Robert M. (8)	Graduate Student, SIO
McGowan, Delpha D.	Staff Research Associate, SIO
McKee, Joseph G. (8)	Electronics Technician, SIO
Moe, Ronald L.	Programmer, SIO
Moore, James C. (7)	Assistant Professor, UCSC
Moreton, David (7)	Student, Australia
Muus, David A.	Staff Research Associate, SIO
O'Neill, Paul V.	Laboratory Assistant, SIO
Patzert, William C. Dr. (7)	Assistant Research Oceanographer, SIO
Phillips, Richard P. Dr. (8)	Professor, UCSD
Raitt, Russell W. Dr. (8)	Professor Emeritus, SIO
Rao, Beta R. (8)	India
Shor, Elizabeth N. (8)	Laboratory Helper, SIO
Utomo, Driyo	Oceanographer, Indonesia

(7) Leg VII only

(8) Leg VIII only

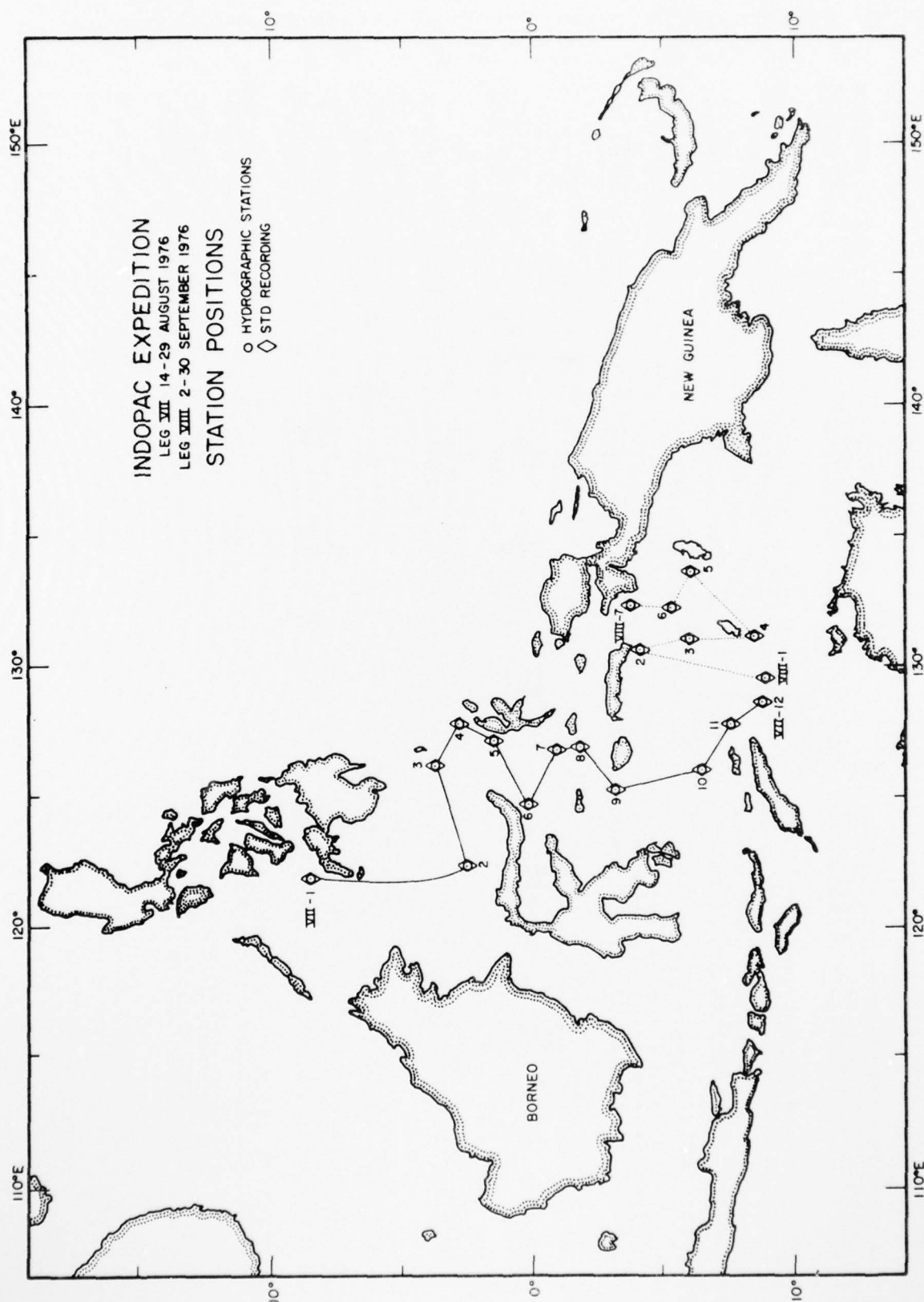


FIGURE 7

RV THOMAS WASHINGTON

INDOPAC LEG VII

1

LATITUDE		LONGITUDE		MO/DAY/YR		MESSENGER		TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES		
8 32.5N		121 52.3E		8/16/76		0023 0713		GMT	4987M	280	KNT	1	290	2	2
Z	T	S	O2	P04	SIO3	N02	N03	DT	Z	T	S	O2	SIGT	DT	DD
1	29.27	33.635	4.60	0.10	3.4	0.00	0.0	681.7	0	29.27	33.635	4.60	20.972	681.7	0.000
10	29.14	33.635	4.67	0.06	3.1	0.01	0.0	677.5	10	29.14	33.635	4.67	21.016	677.5	0.068
20	28.78	33.639	4.62	0.08	3.2	0.00	0.4	665.7	20	28.78	33.639	4.62	21.139	665.7	0.135
30	28.65	33.784	4.69	0.06	3.4	0.01	0.3	651.1	30	28.65	33.784	4.69	21.290	651.1	0.201
50	27.79	34.338	4.65	0.14	3.4	0.04	0.3	584.3	50	27.79	34.338	4.65	21.988	584.3	0.325
75	25.77	34.414	3.79	0.52	9.2	0.18	4.2	517.6	75	25.77	34.414	3.79	22.685	517.6	0.463
99	23.62	34.327	2.81	0.83	15.2	0.05	10.6	462.1	100	23.52	34.328	2.78	23.294	459.3	0.586
125	20.78	34.359	2.20	1.14	22.0	0.03	15.7	383.7	125	20.78	34.359	2.20	24.087	383.7	0.693
150	17.45	34.442	2.01	1.42	28.8	0.03	19.4	296.9	150	17.45	34.442	2.01	24.998	296.9	0.779
200	14.75	34.476	1.63	1.70	39.4	0.03	24.4	235.7	200	14.75	34.476	1.63	25.642	235.7	0.915
250	13.62	34.471	1.47	1.89	47.0	0.02	26.4	213.3	250	13.62	34.471	1.47	25.877	213.3	1.030
300	12.72	34.466	1.43	2.04	52.2	0.00	27.8	196.4	300	12.72	34.466	1.43	26.054	196.4	1.136
401	11.70	34.473	1.71	2.06	51.8	0.04	27.5	177.3	400	11.71	34.474	1.71	26.255	177.4	1.332
502	10.88	34.463	1.80	2.04	56.8	0.03	28.5	163.7	500	10.89	34.464	1.80	26.397	163.9	1.513
653	10.41	34.458	1.87	2.10	59.6	0.03	28.8	156.2	600	10.51	34.460	1.85	26.462	157.8	1.687
803	10.18	34.460	1.67	2.25	66.4	0.03	29.6	152.3	700	10.32	34.459	1.82	26.495	154.6	1.858
995	10.08	34.456	1.58	2.28	71.1	0.03	30.1	150.9	800	10.18	34.461	1.67	26.519	152.3	2.027
1183	10.08	34.460	1.55	2.33	72.6	0.02	30.2	150.6	1000	10.08	34.457	1.58	26.534	150.9	2.369
1367	10.09	34.464	1.45	2.30	76.2	0.02	30.3	150.5	1200	10.08	34.461	1.54	26.537	150.6	2.716
1446A	10.07	34.469	1.50	2.34	79.8	0.00	31.0	149.3	1500	10.08	34.469	1.51	26.544	150.0	3.251
1644A	10.11	34.470	1.55	2.29	80.6	0.00	30.7	150.4	1750	10.12	34.471	1.51	26.539	150.4	3.710
1843A	10.12	34.471	1.47	2.24	83.0	0.00	30.8	150.5	2000	10.15	34.476	1.44	26.537	150.6	4.182
2042A	10.16	34.477	1.43	2.38	85.9	0.00	31.0	150.7	2250	10.18	34.476	1.43	26.532	151.0	4.667
2439B	10.19	34.473	1.43	2.40	88.6	0.00	30.9	151.5	2500	10.20	34.475	1.45	26.527	151.6	5.166
2685B	10.25	34.478	1.52	2.33	89.0	0.00	30.9	152.1	2750	10.26	34.479	1.56	26.521	152.2	5.678
2931B	10.27	34.478	1.62	2.32	90.0	0.00	30.8	152.4	3000	10.28	34.478	1.59	26.516	152.6	6.203
3177B	10.31	34.476	1.50	2.30	91.2	0.00	30.5	153.2	3250	10.32	34.478	1.50	26.508	153.4	6.741
3424B	10.36	34.481	1.51	2.29	91.6	0.00	30.4	153.7	3500	10.37	34.481	1.50	26.503	153.9	7.292
3671B	10.39	34.478	1.45	2.37	92.0	0.00	30.4	154.4	3750	10.40	34.478	1.42	26.495	154.6	7.856
3919B	10.43	34.477	1.37	2.44	89.4	0.00	30.2	155.1	4000	10.44	34.479	1.36	26.488	155.3	8.434
4167B	10.47	34.480	1.35	2.38	89.5	0.00	30.4	155.6	4250	10.49	34.480	1.34	26.481	155.9	9.024
4418B	10.52	34.478	1.33	2.33	90.2	0.02	30.3	156.5	4500	10.54	34.481	1.37	26.473	156.9	9.627
4519B	10.54	34.478	1.38	2.36	90.0	0.04	30.4	156.9	4750	10.58	34.481	1.36	26.466	157.4	10.244
4619B	10.55	34.481	1.34	2.37	90.2	0.02	30.3	156.8							
4721B	10.57	34.480	1.36	2.43	90.0	0.00	30.2	157.2							
4822B	10.59	34.480	1.36	2.43	89.6	0.00	30.1	157.6							
4924B	10.61	34.480	1.34	2.43	90.0	0.00	30.0	157.9							

RV THOMAS WASHINGTON

INDOPAC LEG VII

2

LATITUDE		LONGITUDE		MO/DAY/YR		MESSENGER		TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES		
2 31.2N		122 21.5E		8/18/76		003A 0346		GMT	5427M	160	KNT	0	160	2	3
Z	T	S	O2	P04	SIO3	N02	N03	DT	Z	T	S	O2	SIGT	DT	DD
0	28.72	34.222	4.69	0.01	1.9	0.02	0.2	621.9	0	28.72	34.222	4.69	21.595	621.9	0.000
10	28.63	34.198	4.65	0.04	1.7	0.00	0.0	620.7	10	28.63	34.198	4.65	21.607	620.7	0.062
19	28.18	34.163	4.69	0.07	1.4	0.00	0.0	609.1	20	28.16	34.164	4.69	21.736	608.4	0.124
29	27.87	34.192	4.67	0.05	1.2	0.00	0.0	597.3	30	27.76	34.202	4.65	21.894	593.2	0.184
47	25.65	34.427	4.18	0.25	2.3	0.74	0.3	513.1	50	25.42	34.470	4.17	22.834	503.3	0.294
71	24.26	34.698	4.06	0.32	2.6	0.16	1.7	453.3	75	24.13	34.718	4.04	23.411	448.1	0.413
93	23.14	34.747	3.95	0.34	3.2	0.12	2.6	418.4	100	22.14	34.751	3.89	24.009	391.2	0.519
116	19.78	34.767	3.75	0.60	5.7	0.07	5.5	328.9	125	18.99	34.746	3.68	24.848	311.2	0.608
139	18.14	34.694	3.57	0.75	10.2	0.01	8.7	294.6	150	17.61	34.664	3.48	25.128	284.5	0.683
161	17.22	34.638	3.41	0.88	13.9	0.03	10.9	277.4	200	15.78	34.589	3.37	25.500	249.1	0.820
183	16.77	34.617	3.35	0.96	15.4	0.01	11.9	268.7	250	13.45	34.536	3.41	25.961	205.3	0.936
226	14.15	34.559	3.42	1.18	16.3	0.01	14.4	217.4	300	12.66	34.504	3.23	26.096	192.5	1.040
269	13.12	34.517	3.40	1.25	18.1	0.01	16.3	200.3	400	9.53	34.442	2.44	26.616	143.2	1.215
312	12.46	34.497	3.15	1.40	21.8	0.12	18.6	189.3	500	7.74	34.500	2.15	26.941	112.3	1.351
353	11.21	34.452	2.92	1.64	27.3	0.06	22.0	170.2	600	6.61	34.530	2.21	27.096	97.6	1.465
436	8.42	34.462	2.12	2.18	46.0	0.02	32.1	124.6	700	5.93	34.546	2.24	27.224	85.5	1.566
518	7.65	34.508	2.16	2.22	51.4	0.02	34.2	110.5	800	5.37	34.557	2.23	27.301	78.1	1.657
684	6.03	34.543	2.24	2.67	68.0	0.06	36.5	86.8	1000	4.48	34.573	2.25	27.417	67.2	1.823
861	5.08	34.560	2.23	2.74	89.8	0.00	38.4	74.6	1200	3.91	34.584	2.26	27.485	60.7	1.972
953A	4.50	34.572	2.26	2.73	98.1	0.00	38.7	67.4	1500	3.71	34.590	2.26	27.511	58.2	2.185
1054	4.45	34.572	2.23	2.82	104.7	0.00	38.9	66.9	1750	3.63	34.591	2.17	27.520	57.4	2.363
1201A	3.91	34.583	2.26	2.83	110.7	0.00	39.6	60.6	2000	3.59	34.590	2.22	27.523	57.1	2.544
1448A	3.74	34.589	2.29	2.86	114.0	0.02	39.3	58.6	2250	3.57	34.593	2.23	27.527	56.8	2.729
1697A	3.64	34.591	2.16	2.97	117.3	0.00	39.4	57.5	2500	3.58	34.594	2.19	27.527	56.8	2.918
1946A	3.60	34.589	2.22	2.99	119.4	0.00	40.1	57.2	2750	3.58	34.592	2.18	27.525	56.9	3.111
2195A	3.57	34.591	2.24	2.98	120.3	0.01	40.1	56.8	3000	3.59	34.593	2.10	27.525	57.0	3.310
2444A	3.56	34.593	2.18	2.99	121.9	0.03	40.3	56.7	3250	3.61	34.595	2.13	27.525	57.0	3.513
2693A	3.58	34.591	2.21	2.88	122.5	0.01	40.4	56.9	3500	3.63	34.593	2.13	27.522	57.3	3.721
2943A	3.59	34.591	2.10	2.87	124.9	0.01	40.4	57.0	3750	3.66	34.594	2.13	27.520	57.5	3.934
3192A	3.61	34.594	2.13	2.81	125.2	0.03	40.6	56.9	4000	3.69	34.597	2.14	27.518	57.6	4.152
3443A	3.62	34.592	2.13	2.90	125.2	0.03	40.5	57.2	4250	3.73	34.594	2.13	27.512	58.2	4.377
3693A	3.65	34.592	2.13	2.90	125.7	0.01	40.4	57.5	4500	3.78	34.595	2.12	27.508	58.6	4.607
3942A	3.68	34.596	2.14	2.84	126.6	0.01	40.5	57.5	4750	3.83	34.597	2.14	27.505	58.9	4.844
4193A	3.72	34.593	2.13	2.84	126.5	0.00	40.6	58.1	5000	3.84	34.596	2.14	27.502	59.1	5.086
4442A	3.76	34.593	2.12	2.89	125.9	0.01	40.8	58.4	5250	3.85	34.595	2.17	27.500	59.3	5

10						20					
LATITUDE	LONGITUDE	MO/DAY/YR	START TIME			LATITUDE	LONGITUDE	MO/DAY/YR	START TIME		
08 32.5N	121 52.5E	08/16/76	0622 GMT			02 31.2N	122 21.5E	08/17/76	2308 GMT		
Z	T	S	SIGMA T	DT	DD	Z	T	S	SIGMA T	DT	DD
0	29.37	33.63	20.935	685.2	0.000	0	28.67	34.16	21.565	624.7	0.000
10	29.36	33.64	20.946	684.2	0.068	10	28.65	34.17	21.579	623.4	0.062
20	28.77	33.70	21.187	661.0	0.156	20	28.32	34.18	21.696	612.2	0.124
30	28.45	33.96	21.503	630.7	0.200	30	27.74	34.31	21.983	584.7	0.184
40	27.89	34.32	21.942	588.7	0.262	40	26.32	34.43	22.526	532.6	0.240
50	27.54	34.41	22.123	571.4	0.320	50	25.19	34.51	22.935	493.6	0.292
75	25.56	34.40	22.739	512.4	0.456	75	23.80	34.62	23.434	446.0	0.410
100	23.14	34.32	23.400	449.3	0.577	100	22.64	34.78	23.891	402.4	0.517
125	20.89	34.38	24.073	385.0	0.682	125	18.89	34.72	24.855	310.5	0.607
150	18.40	34.44	24.764	319.1	0.771	150	17.84	34.67	25.078	289.3	0.683
175	16.11	34.47	25.334	264.9	0.846	175	16.20	34.56	25.398	258.8	0.753
200	14.64	34.47	25.661	233.6	0.909	200	13.96	34.54	25.859	215.0	0.813
225	13.94	34.47	25.810	219.7	0.966	225	12.88	34.48	26.034	198.4	0.866
250	13.39	34.46	25.915	209.7	1.023	250	12.77	34.48	26.055	196.4	0.917
275	12.89	34.46	26.016	200.1	1.076	275	12.70	34.48	26.069	195.0	0.968
300	12.66	34.45	26.054	196.5	1.127	300	12.25	34.47	26.149	187.4	1.018
350	12.20	34.46	26.151	187.3	1.227	350	9.95	34.40	26.512	153.0	1.106
400	11.62	34.46	26.261	176.6	1.323	400	8.64	34.43	26.749	130.5	1.181
450	11.24	34.46	26.331	170.1	1.415	450	8.28	34.47	26.836	122.2	1.248
500	10.90	34.46	26.393	164.3	1.504	500	7.87	34.49	26.914	114.9	1.312
550	10.70	34.46	26.429	160.9	1.591	550	7.44	34.52	27.000	106.7	1.371
600	10.56	34.46	26.454	158.5	1.677	600	6.98	34.53	27.073	99.8	1.428
650	10.42	34.46	26.478	156.2	1.763	650	6.56	34.54	27.136	93.7	1.481
700	10.32	34.46	26.496	154.6	1.848	700	6.24	34.54	27.180	89.6	1.531
750	10.25	34.46	26.508	153.4	1.933	750	5.88	34.54	27.226	85.3	1.580
800	10.18	34.46	26.520	152.3	2.017	800	5.50	34.55	27.281	80.1	1.626
850	10.15	34.46	26.525	151.8	2.102	850	5.19	34.56	27.326	75.8	1.670
900	10.12	34.46	26.530	151.3	2.187	900	4.91	34.56	27.359	72.7	1.713
950	10.10	34.46	26.534	151.0	2.272	950	4.65	34.57	27.396	69.2	1.753
1000	10.09	34.46	26.535	150.8	2.358	1000	4.56	34.57	27.406	68.2	1.793
1100	10.08	34.46	26.537	150.6	2.531	1100	4.25	34.58	27.448	64.3	1.869
1200	10.07	34.46	26.539	150.5	2.705	1200	4.06	34.58	27.468	62.3	1.944
1300	10.08	34.47	26.545	149.9	2.881	1300	3.92	34.58	27.483	61.0	2.017
1400	10.08	34.46	26.537	150.6	3.060	1400	3.85	34.58	27.490	60.3	2.089
1500	10.09	34.47	26.543	150.1	3.240	1500	3.78	34.59	27.505	58.9	2.161
1600	10.092	34.468	26.541	150.2	3.422	1600	3.705	34.591	27.513	58.1	2.233
1700	10.100	34.469	26.541	150.3	3.606	1700	3.674	34.592	27.517	57.7	2.305
1800	10.111	34.470	26.539	150.4	3.793	1800	3.645	34.593	27.521	57.4	2.376
1900	10.130	34.472	26.538	150.6	3.981	1900	3.625	34.593	27.523	57.2	2.449
2000	10.140	34.472	26.536	150.7	4.171	2000	3.611	34.594	27.525	57.0	2.522
2100	10.152	34.472	26.534	150.9	4.364	2100	3.597	34.593	27.526	56.9	2.595
2200	10.165	34.474	26.533	151.0	4.559	2200	3.589	34.592	27.526	56.9	2.669
2300	10.178	34.475	26.530	151.3	4.755	2300	3.586	34.594	27.527	56.7	2.744
2400	10.191	34.474	26.529	151.4	4.954	2400	3.589	34.594	27.527	56.8	2.819
2500	10.204	34.474	26.527	151.6	5.155	2500	3.582	34.594	27.528	56.7	2.895
2600	10.217	34.475	26.525	151.8	5.358	2600	3.580	34.592	27.526	56.8	2.972
2700	10.230	34.475	26.523	152.0	5.563	2700	3.581	34.593	27.527	56.8	3.050
2800	10.245	34.477	26.522	152.1	5.771	2800	3.586	34.593	27.527	56.8	3.128
2900	10.260	34.476	26.518	152.4	5.980	2900	3.590	34.596	27.529	56.6	3.207
3000	10.275	34.477	26.517	152.6	6.191	3000	3.592	34.594	27.527	56.8	3.286
3100	10.290	34.477	26.514	152.8	6.405	3100	3.598	34.595	27.527	56.8	3.367
3200	10.306	34.478	26.512	153.0	6.620	3200	3.606	34.593	27.525	57.0	3.448
3300	10.323	34.478	26.509	153.3	6.838	3300	3.613	34.595	27.526	56.9	3.530
3400	10.338	34.478	26.506	153.5	7.058	3400	3.621	34.597	27.526	56.8	3.613
3500	10.354	34.478	26.504	153.8	7.280	3500	3.629	34.596	27.525	57.0	3.697
3600	10.370	34.477	26.500	154.1	7.504	3600	3.639	34.595	27.523	57.1	3.781
3700	10.387	34.478	26.498	154.3	7.730	3700	3.650	34.596	27.523	57.2	3.866
3800	10.404	34.478	26.495	154.6	7.958	3800	3.662	34.595	27.521	57.4	3.952
3900	10.420	34.478	26.492	154.9	8.188	3900	3.676	34.596	27.520	57.4	4.040
4000	10.436	34.478	26.489	155.2	8.421	4000	3.688	34.596	27.519	57.5	4.128
4100	10.455	34.478	26.486	155.5	8.655	4100	3.702	34.595	27.517	57.7	4.216
4200	10.472	34.478	26.483	155.7	8.892	4200	3.715	34.596	27.516	57.6	4.306
4300	10.489	34.479	26.481	156.0	9.130	4300	3.728	34.596	27.515	57.9	4.397
4400	10.507	34.479	26.478	156.3	9.371	4400	3.742	34.597	27.514	58.0	4.488
4500	10.524	34.480	26.475	156.5	9.614	4500	3.755	34.596	27.512	58.2	4.581
4600	10.542	34.480	26.472	156.8	9.858	4600	3.769	34.596	27.511	58.3	4.674
4700	10.560	34.480	26.469	157.1	10.105	4700	3.783	34.597	27.510	58.4	4.768
4800	10.578	34.480	26.466	157.4	10.354	4800	3.798	34.595	27.507	58.7	4.864
4900	10.595	34.480	26.463	157.7	10.605	4900	3.812	34.595	27.506	58.8	4.960
						5000	3.826	34.594	27.503	59.0	5.057
						5100	3.842	34.595	27.503	59.1	5.155
						5200	3.856	34.593	27.500	59.4	5.254
						5300	3.871	34.594	27.499	59.4	5.354
						5400	3.886	34.593	27.496	59.7	5.455

RV THOMAS WASHINGTON

INDOPAC LEG VII

LATITUDE		LONGITUDE		MO/DAY/YR		MESSENGER		TIME	BOTTOM		WIND	SPEED	WEATHER	DOMINANT WAVES		
3 45.0N		126 14.6E		8/19/76		0842 1105		GMT	3905M		180	19KT	0			
Z	T	S	02	P04	SI03	N02	N03	DT	Z	T	S	02	SIGT	DT	DD	
0	27.94	34.351		0.09	1.0	0.00	0.1	588.0	0	27.94	34.351		21.948	588.0	0.000	
10	27.94	34.349	4.76	0.03	1.0	0.00	0.1	588.2	10	27.94	34.349	4.76	21.947	588.2	0.059	
19	27.93	34.350	4.74	0.02	1.5	0.00	0.2	587.8	20	27.93	34.351	4.74	21.950	587.8	0.118	
30	27.95	34.350	4.76	0.07	0.8	0.01	0.2	588.4	30	27.95	34.350	4.76	21.945	588.4	0.177	
49	27.94	34.365	4.56	0.04	1.1	0.00	0.1	587.0	50	27.91	34.362	4.57	21.965	586.5	0.294	
74	27.30	34.692	4.87	0.05	1.3	0.00	0.1	543.7	75	27.20	34.705	4.86	22.453	539.7	0.436	
98	23.95	34.893	4.36	0.20	2.9	0.11	1.0	430.5	100	23.53	34.886	4.30	23.704	419.3	0.557	
123	19.07	34.812	3.75	0.58	5.0	0.05	6.3	308.2	125	16.85	34.806	3.73	24.929	303.4	0.648	
148	17.11	34.713	3.62	0.78	9.1	0.01	10.6	269.4	150	16.97	34.706	3.60	25.314	266.8	0.720	
172	15.56	34.634	3.37	1.07	12.6	0.03	13.9	241.1	200	13.72	34.562	3.02	25.925	208.7	0.842	
197	13.98	34.578	3.04	1.31	17.5	0.05	17.6	212.6	250	10.25	34.400	2.76	26.461	157.9	0.936	
246	10.30	34.387	2.78	1.84	30.9	0.02	24.7	159.6	300	9.59	34.419	2.54	26.587	145.9	1.015	
295	9.67	34.418	2.58	2.01	38.6	0.00	27.2	147.2	400	8.37	34.521	2.32	26.861	119.9	1.155	
345	8.89	34.433	2.27	2.27	44.1	0.11	30.1	134.0	500	7.86	34.530	2.24	26.947	111.8	1.278	
394	8.41	34.516	2.32	2.35	49.5	0.02	31.6	120.7	600	7.08	34.531	2.34	27.059	101.1	1.394	
492	7.91	34.529	2.24	2.41	51.1	0.01	32.8	112.6	700	6.14	34.539	2.44	27.192	88.5	1.498	
591	7.17	34.530	2.35	2.48	55.2	0.01	34.0	102.3	800	5.32	34.552	2.49	27.304	77.9	1.591	
789	5.37	34.551	2.50	2.66	77.6	0.01	36.6	78.5	1000	4.69	34.556	2.37	27.380	70.6	1.759	
985	4.71	34.557	2.37	2.75	88.6	0.01	38.2	70.8	1200	3.54	34.584	2.40	27.522	57.1	1.907	
1182	3.77	34.575	2.40	2.82	109.7	0.00	39.1	59.9	1500	2.92	34.604	2.47	27.598	50.1	2.097	
1206A	3.47	34.587		2.80	118.8	0.02	39.0	56.2	1750	2.80	34.621	2.61	27.639	46.2	2.242	
1404A	3.07	34.598	2.43	2.81	127.4	0.02	39.1	51.7	2000	2.43	34.626	2.67	27.658	44.4	2.382	
1605A	2.77	34.608	2.52	2.81	133.0	0.02	38.9	48.4	2250	2.39	34.627	2.70	27.662	44.0	2.521	
1805A	2.55	34.623	2.64	2.80	137.9	0.02	39.3	45.5	2500	2.37	34.633	2.71	27.669	43.3	2.661	
2004A	2.43	34.624	2.67	2.74	141.1	0.00	40.2	44.4	2750	2.37	34.634	2.72	27.669	43.3	2.804	
2204A	2.40	34.624	2.70	2.74	138.2	0.00	40.3	44.2	3000	2.39	34.636	2.72	27.670	43.3	2.949	
2405A	2.38	34.633	2.70	2.77	142.2	0.00	41.0	43.3	3250	2.41	34.635	2.75	27.667	43.5	3.098	
2603A	2.37	34.632	2.72	2.74	142.4	0.02	41.0	43.3	3500	2.42	34.635	2.73	27.666	43.6	3.250	
2803A	2.37	34.633	2.72	2.75	142.5	0.00	41.0	43.2	3750	2.47	34.635	2.73	27.662	44.0	3.407	
3001A	2.39	34.635	2.72	2.76	141.7	0.00	40.4	43.3								
3200A	2.41	34.634	2.76	2.76	143.8	0.02	40.2	43.5								
3397A	2.4	K 34.634	2.72	2.76	143.4	0.02	39.8	43.4								
3593A		34.636	2.74	2.70	143.2	0.02	39.6									
3691A	2.466	34.634	2.72	2.73	142.5	0.00	39.2	43.9								
3792A	2.481	34.634	2.74	2.71	142.3	0.02	38.8	44.1								
3889A	2.493	34.636	2.77	2.70	141.5	0.13U	38.8	44.0								

RV THOMAS WASHINGTON

INDOPAC LEG VII

LATITUDE		LONGITUDE		MO/DAY/YR		MESSENGER		TIME	BOTTOM		WIND	SPEED	WEATHER	DOMINANT WAVES		
2 50.8N		127 48.4E		8/20/76		0949 0300		GMT	3630M		190	14KT	0	180 4 4		
Z	T	S	02	P04	SI03	N02	N03	DT	Z	T	S	02	SIGT	DT	DD	
0	26.85	34.272	4.72	0.15	1.5	0.00	0.1	560.1	0	26.85	34.272	4.72	22.240	560.1	0.000	
10	26.79	34.267	4.74	0.15	1.5	0.02	0.1	558.7	10	26.79	34.267	4.74	22.255	558.7	0.056	
20	26.74	34.266	4.72	0.14	1.4	0.00	0.0	557.2	20	26.74	34.266	4.72	22.270	557.2	0.112	
30	26.74	34.270	4.68	0.12	1.4	0.00	0.0	556.9	30	26.74	34.270	4.68	22.273	556.9	0.168	
50	26.75	34.271	4.64	0.18	1.3	0.02	0.1	557.2	50	26.75	34.271	4.64	22.271	557.2	0.279	
75	26.74	34.281	4.64	0.13	1.5	0.02	0.2	556.2	75	26.74	34.281	4.64	22.282	556.2	0.419	
99	26.30	34.355	4.46	0.20	2.2	0.33	0.6	537.6	100	26.07	34.356	4.43	22.549	530.6	0.556	
124	19.95	34.547	3.62	0.69	7.8	0.02	7.9	349.1	125	19.82	34.559	3.62	24.493	345.0	0.666	
150	17.43	34.704	3.49	0.84	10.4	0.00	10.6	277.3	150	17.43	34.704	3.49	25.203	277.3	0.745	
174	14.84	34.591	3.18	1.26	21.2	0.02	16.4	229.1	200	13.43	34.544	3.19	25.971	204.3	0.868	
199	13.47	34.545	3.19	1.41	22.0	0.00	17.4	205.0	250	11.98	34.510	2.86	26.231	179.7	0.967	
248	12.04	34.508	2.87	1.64	27.8	0.02	21.8	180.8	300	10.59	34.528	2.52	26.501	154.1	1.054	
297	10.68	34.531	2.54	1.91	37.8	0.00	25.7	155.3	400	9.00	34.526	2.28	26.767	128.9	1.203	
348	9.37	34.475	2.29	2.19	42.5	0.00	29.0	138.2	500	7.63	34.507	2.09	26.962	110.3	1.330	
397	9.04	34.525	2.29	2.25	46.7	0.00	29.8	129.4	600	6.77	34.545	2.47	27.113	96.0	1.442	
495	7.68	34.505	2.07	2.46	49.3	0.00	32.6	111.1	700	6.10	34.545	2.39	27.202	87.6	1.543	
594	6.81	34.544	2.47	2.46	48.7	0.02	33.5	96.5	800	5.54	34.537	2.32	27.266	81.4	1.638	
792	5.58	34.536	2.32	2.68	69.6	0.02	35.8	82.0	1000	4.37	34.571	2.34	27.426	66.3	1.806	
985A	4.51	34.566	2.36	2.73	95.5	0.00	37.8	68.0	1200	3.81	34.578	2.29	27.491	60.2	1.953	
990	4.40	34.569	2.34	2.77	96.0	0.00	37.9	66.6	1500	3.05	34.599	2.40	27.582	51.5	2.151	
1184A	3.89	34.576	2.33	2.76	107.8	0.00	38.5	61.0	1750	2.48	34.622	2.60	27.651	45.0	2.297	
1189	3.84	34.576	2.29	2.83	106.8	0.04	38.8	60.5	2000	2.17	34.637	2.77	27.688	41.5	2.430	
1384A	3.39	34.586	2.34	2.82	117.0	0.00	39.0	55.5	2250	1.88	34.656	2.96	27.727	37.9	2.553	
1584A	2.81	34.608	2.46	2.78	130.2	0.00	39.2	48.7	2500	1.77	34.657	3.08	27.736	36.9	2.670	
1784A	2.43	34.624	2.65	2.75	136.3	0.00	38.8	44.4	2750	1.76	34.664	3.12	27.743	36.3	2.787	
1984A	2.19	34.634	2.76	2.56	141.3	0.02	38.9	41.8	3000	1.77	34.664	3.13	27.742	36.5	2.905	
2184A	1.93	34.653	2.93	2.67	146.0	0.00	38.5	38.4	3250	1.79	34.663	3.15	27.740	36.6	3.026	
2383A	1.82	34.655	3.01	2.62	146.7	0.02	37.6	37.4	3500	1.81	34.662	3.18	27.736	36.9	3.150	
2583A	1.75	34.659	3.12	2.71	147.9	0.00	37.7	36.6								
2782A	1.76	34.664	3.12	2.71	148.0	0.00	37.5	36.3								
3278A	1.787	34.662	3.15	2.67	148.0	0.15U	37.4	36.6								
3375A	1.801	34.662	3.15	2.70	147.8	0.00	37.1	36.7								
2981A	1.77	34.660	3.13	2.72	148.4	0.00	37.5	36.7								
3179A	1.8	K 34.659	3.13	2.73	147.9	0.00	37.5	37.0								
3474A	1.812	34.660	3.18	2.72	147.4	0.00	37.6	37.0								
3573A	1.824	34.663	3.19	2.74	148.0	0.00	37.5	36.8								

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INDOPAC LEG VII

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LATITUDE		LONGITUDE		MO/DAY/YR		START TIME		LATITUDE		LONGITUDE		MO/DAY/YR		START TIME	
03 45.0N		126 14.6E		08/19/76		0732 GMT		02 50.8N		127 48.4E		08/19/76		2348 GMT	
Z	T	S	SIGMA T	DT	DD	Z	T	S	SIGMA T	DT	DD	Z	T	S	SIGMA T
0	28.02	34.34	21.914	591.3	0.000	0	26.02	34.27	22.248	559.4	0.000	0	26.02	34.27	22.248
10	28.02	34.35	21.922	590.6	0.059	10	26.77	34.26	22.256	558.6	0.056	10	26.77	34.26	22.256
20	28.03	34.35	21.918	590.9	0.113	20	26.75	34.27	22.270	557.3	0.112	20	26.75	34.27	22.270
30	28.02	34.36	21.929	589.9	0.177	30	26.75	34.27	22.270	557.3	0.168	30	26.75	34.27	22.270
40	28.06	34.36	21.936	589.3	0.236	40	26.75	34.27	22.270	557.3	0.223	40	26.75	34.27	22.270
50	27.89	34.45	22.042	579.0	0.295	50	26.75	34.27	22.270	557.3	0.279	50	26.75	34.27	22.270
75	25.83	34.96	23.077	480.0	0.426	75	26.74	34.28	22.281	556.2	0.419	75	26.74	34.28	22.281
100	23.80	34.68	23.631	427.2	0.542	100	26.48	34.35	22.415	543.3	0.557	100	26.48	34.35	22.415
125	18.35	34.82	25.067	290.3	0.633	125	20.32	34.73	24.491	345.2	0.670	125	20.32	34.73	24.491
150	16.46	34.60	25.395	259.1	0.703	150	17.53	34.66	25.161	281.4	0.749	150	17.53	34.66	25.161
175	15.44	34.51	25.562	243.2	0.767	175	16.56	34.59	25.322	266.0	0.819	175	16.56	34.59	25.322
200	14.86	34.59	25.706	229.6	0.827	200	14.88	34.58	25.694	230.7	0.882	200	14.88	34.58	25.694
225	11.19	34.35	26.255	177.4	0.980	225	13.44	34.52	25.951	206.2	0.938	225	13.44	34.52	25.951
250	10.55	34.39	26.436	160.2	0.923	250	12.72	34.50	26.081	193.9	0.990	250	12.72	34.50	26.081
275	10.11	34.41	26.493	154.6	0.964	275	12.07	34.49	26.199	182.7	1.039	275	12.07	34.49	26.199
300	9.43	34.41	26.599	144.0	1.003	300	11.12	34.46	26.353	168.1	1.084	300	11.12	34.46	26.353
350	8.44	34.49	26.828	123.4	1.073	350	9.75	34.43	26.570	147.5	1.167	350	9.75	34.43	26.570
400	8.17	34.50	26.877	118.4	1.137	400	9.28	34.51	26.710	134.2	1.241	400	9.28	34.51	26.710
450	8.01	34.51	26.909	115.4	1.199	450	8.71	34.48	26.778	127.8	1.311	450	8.71	34.48	26.778
500	7.81	34.52	26.946	111.8	1.260	500	7.71	34.49	26.937	112.7	1.375	500	7.71	34.49	26.937
550	7.32	34.52	27.017	105.1	1.319	550	7.21	34.53	27.041	102.9	1.433	550	7.21	34.53	27.041
600	6.75	34.51	27.089	98.3	1.374	600	6.88	34.53	27.087	98.5	1.488	600	6.88	34.53	27.087
650	6.24	34.53	27.172	90.4	1.426	650	6.46	34.52	27.131	94.3	1.541	650	6.46	34.52	27.131
700	5.80	34.54	27.236	84.3	1.474	700	6.23	34.53	27.173	90.3	1.592	700	6.23	34.53	27.173
750	5.41	34.55	27.292	79.0	1.519	750	5.86	34.53	27.222	85.7	1.641	750	5.86	34.53	27.222
800	5.33	34.55	27.302	78.1	1.563	800	5.60	34.53	27.253	82.7	1.688	800	5.60	34.53	27.253
850	5.23	34.56	27.321	76.2	1.607	850	5.05	34.54	27.327	75.7	1.733	850	5.05	34.54	27.327
900	5.08	34.57	27.347	73.0	1.650	900	4.91	34.55	27.351	73.4	1.775	900	4.91	34.55	27.351
950	4.87	34.57	27.371	71.5	1.691	950	4.73	34.56	27.379	70.8	1.816	950	4.73	34.56	27.379
1000	4.60	34.56	27.394	69.4	1.732	1000	4.50	34.56	27.405	68.3	1.856	1000	4.50	34.56	27.405
1100	3.96	34.56	27.479	61.4	1.807	1100	4.13	34.57	27.453	63.8	1.932	1100	4.13	34.57	27.453
1200	3.49	34.59	27.534	56.1	1.876	1200	3.89	34.58	27.486	60.7	2.005	1200	3.89	34.58	27.486
1300	3.28	34.60	27.562	53.5	1.940	1300	3.62	34.58	27.513	58.1	2.075	1300	3.62	34.58	27.513
1400	3.08	34.60	27.581	51.7	2.003	1400	3.39	34.59	27.543	55.2	2.143	1400	3.39	34.59	27.543
1500	3.02	34.60	27.586	51.2	2.064	1500	3.10	34.60	27.579	51.9	2.207	1500	3.10	34.60	27.579
1600	2.787	34.607	27.613	48.6	2.124	1600	2.805	34.611	27.614	48.5	2.267	1600	2.805	34.611	27.614
1700	2.614	34.616	27.635	46.5	2.182	1700	2.618	34.620	27.638	46.2	2.325	1700	2.618	34.620	27.638
1800	2.547	34.619	27.643	45.7	2.236	1800	2.461	34.626	27.656	44.5	2.380	1800	2.461	34.626	27.656
1900	2.490	34.621	27.650	45.1	2.294	1900	2.339	34.631	27.671	43.2	2.434	1900	2.339	34.631	27.671
2000	2.422	34.625	27.659	44.3	2.350	2000	2.214	34.636	27.685	41.8	2.486	2000	2.214	34.636	27.685
2100	2.407	34.626	27.663	43.9	2.405	2100	2.024	34.646	27.708	39.6	2.537	2100	2.024	34.646	27.708
2200	2.400	34.629	27.664	43.6	2.460	2200	1.951	34.649	27.716	38.8	2.585	2200	1.951	34.649	27.716
2300	2.392	34.629	27.665	43.7	2.516	2300	1.858	34.654	27.728	37.8	2.633	2300	1.858	34.654	27.728
2400	2.380	34.631	27.667	43.5	2.572	2400	1.828	34.656	27.732	37.4	2.680	2400	1.828	34.656	27.732
2500	2.372	34.632	27.669	43.3	2.626	2500	1.785	34.657	27.736	37.0	2.727	2500	1.785	34.657	27.736
2600	2.375	34.633	27.669	43.3	2.685	2600	1.760	34.660	27.740	36.6	2.774	2600	1.760	34.660	27.740
2700	2.372	34.632	27.669	43.3	2.742	2700	1.762	34.662	27.741	36.5	2.820	2700	1.762	34.662	27.741
2800	2.373	34.634	27.670	43.2	2.799	2800	1.766	34.660	27.739	36.6	2.867	2800	1.766	34.660	27.739
2900	2.380	34.635	27.670	43.2	2.857	2900	1.771	34.661	27.740	36.6	2.915	2900	1.771	34.661	27.740
3000	2.390	34.633	27.668	43.4	2.916	3000	1.777	34.660	27.739	36.7	2.963	3000	1.777	34.660	27.739
3100	2.398	34.634	27.668	43.4	2.975	3100	1.784	34.660	27.738	36.8	3.011	3100	1.784	34.660	27.738
3200	2.407	34.634	27.667	43.5	3.034	3200	1.787	34.661	27.739	36.7	3.060	3200	1.787	34.661	27.739
3300	2.418	34.635	27.667	43.5	3.095	3300	1.795	34.661	27.738	36.8	3.109	3300	1.795	34.661	27.738
3400	2.426	34.635	27.666	43.6	3.156	3400	1.804	34.661	27.737	36.6	3.158	3400	1.804	34.661	27.737
3500	2.439	34.634	27.665	43.7	3.217	3500	1.817	34.663	27.738	36.8	3.208	3500	1.817	34.663	27.738
3600	2.450	34.636	27.665	43.7	3.279	3600	1.822	34.662	27.737	36.9	3.259	3600	1.822	34.662	27.737
3700	2.462	34.635	27.664	43.8	3.342										
3800	2.474	34.636	27.663	43.9	3.406										
3900	2.486	34.634	27.661	44.1	3.470										

RV THOMAS WASHINGTON

INDOPAC LEG VII

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LATITUDE		LONGITUDE		MO/DAY/YR		MESSENGER		TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES		
1 29.5N		127 08.2E		8/21/76		0718 0910		GMT	3025M	220	17KT	2	220 5 6		
Z	T	S	O2	P04	S103	N02	N03	DT	Z	T	S	O2	S10T	DT	LD
0	26.87	34.247	4.77	0.10	0.4	0.09	0.1	562.5	0	26.87	34.247	4.77	22.215	562.5	0.000
10	26.87	34.246	4.77	0.15	0.6	0.07	0.1	562.6	10	26.87	34.246	4.77	22.214	562.6	0.056
20	26.86	34.246	4.75	0.11	0.5	0.07	0.1	562.3	20	26.86	34.246	4.75	22.217	562.3	0.113
31	26.86	34.247	4.76	0.14	0.7	0.00	0.1	562.2	30	26.86	34.248	4.76	22.218	562.2	0.169
50	26.58	34.285	4.64	0.15	0.8	0.15	0.0	551.0	50	26.58	34.285	4.64	22.555	551.0	0.281
76	26.33	34.328	4.52	0.21	1.0	0.38	0.2	540.4	75	26.34	34.327	4.53	22.442	540.8	0.418
100	23.61	34.513	3.96	0.39	3.8	0.27	4.0	448.4	100	23.61	34.513	3.96	23.409	448.4	0.542
126	20.46	34.676	3.61	0.67	8.0	0.09	7.2	352.6	125	20.57	34.672	3.62	24.379	355.8	0.644
151	18.39	34.658	3.51	0.81	10.6	0.00	9.8	303.1	150	18.47	34.662	3.51	24.917	304.6	0.727
175	16.28	34.624	3.38	1.08	15.9	0.09	12.5	257.4	200	13.85	34.583	2.96	25.915	209.7	0.859
201	13.76	34.581	2.94	1.43	26.0	0.00	16.4	208.0	250	12.45	34.562	2.80	26.162	184.3	0.960
251	12.44	34.561	2.80	1.69	31.2	0.05	22.2	184.2	300	10.53	34.563	2.53	26.539	150.4	1.047
301	10.49	34.563	2.52	2.03	39.7	0.05	26.2	149.8	400	9.30	34.540	2.40	26.730	132.3	1.196
400	9.30	34.540	2.40	2.20	42.3	0.02	29.1	132.3	500	7.54	34.547	2.27	27.007	106.1	1.323
500	7.54	34.547	2.27	2.46	44.1	0.00	32.6	106.1	600	6.59	34.542	2.38	27.135	93.9	1.432
600	6.59	34.542	2.36	2.53	51.7	0.00	33.2	93.9	700	5.87	34.554	2.41	27.236	84.1	1.530
699	5.87	34.553	2.41	2.63	62.1	0.11	34.6	84.2	800	5.50	34.557	2.41	27.286	79.6	1.622
798	5.51	34.556	2.41	2.70		0.04	34.2	79.7	1000	4.53	34.571	2.36	27.409	67.9	1.789
898	5.00	34.562	2.37	2.74		0.07	36.5	73.5	1200	3.77	34.582	2.38	27.499	59.4	1.938
997	4.56	34.569	2.37	2.79		0.13	37.1	68.3	1500	2.99	34.601	2.43	27.589	50.8	2.134
1011A	4.43	34.573	2.34	2.72	98.4	0.04	37.0	66.6	1750	2.43	34.625	2.63	27.657	44.4	2.278
1210A	3.76	34.585	2.38	2.69	110.8	0.00	37.5	59.0	2000	2.15	34.638	2.78	27.690	41.3	2.409
1408A	3.22	34.594	2.38	2.78	121.7	0.05	37.7	53.4	2250	1.97	34.649	2.95	27.714	39.0	2.533
1608A	2.74	34.610	2.52	2.77	130.7	0.42	39.4	48.3	2500	1.85	34.654	3.03	27.727	37.7	2.654
1807A	2.33	34.629	2.67	2.75	138.5	0.05	38.3	43.2	2750	1.85	34.659	3.07	27.732	37.4	2.774
2006A	2.15	34.637	2.78	2.76	142.9	0.05	37.7	41.2	3000	1.84	34.658	3.09	27.732	37.3	2.896
2204A	2.00	34.647	2.92	2.78	145.7	0.05	38.1	39.3							
2403A	1.88	34.653	3.01	2.69	146.5	0.00	37.4	36.0							
2602A	1.84	34.655	3.05	2.76	147.0	0.05	37.7	37.6							
2800A	1.848	34.659	3.08	2.73	147.0	0.05	37.3	37.3							
2849A	1.843	34.659	3.09	2.71	148.1	0.00	37.2	37.3							
2898A	1.849	34.657	3.09	2.68	148.4	0.00	37.1	37.4							
2947A	1.85	34.659	3.09	2.69	148.7	0.09	36.9	37.3							
2997A	1.845	34.657	3.09	2.57	146.5	0.00	35.9	37.4							

RV THOMAS WASHINGTON

INDOPAC LEG VII

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LATITUDE		LONGITUDE		MO/DAY/YR		MESSENGER		TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES		
0 06.2N		124 43.4E		8/23/76		0729 0950		GMT	4134M	090	3KT	1	330 2 2		
Z	T	S	O2	P04	S103	N02	N03	DT	Z	T	S	O2	S10T	DT	DD
1	26.90	34.165	4.91	0.09		0.11	0.0	569.4	0	26.90	34.165	4.91	22.144	569.4	0.000
10	26.34	34.061	4.99	0.07		0.00	0.0	559.9	10	26.34	34.061	4.99	22.242	559.9	0.056
20	26.06	34.023	4.85	0.12		0.09	0.2	554.3	20	26.06	34.023	4.85	22.301	554.3	0.112
30	25.53	34.090	4.51	0.22		0.31	1.4	533.8	30	25.53	34.090	4.51	22.515	533.8	0.167
50	25.44	34.268	4.34	0.29		0.67	1.8	518.4	50	25.44	34.268	4.34	22.677	518.4	0.272
75	23.62	34.407	3.66	0.47		0.18	6.4	456.3	75	23.62	34.407	3.66	23.326	456.3	0.395
99	22.11	34.72	3.94	0.44		0.20	4.6	390.9	100	22.06	34.744	3.93	24.027	389.4	0.501
124	20.56	34.670	3.65	0.64		0.09	7.7	355.6	125	20.45	34.668	3.64	24.408	353.1	0.595
149	17.78	34.636	3.32	0.95		0.02	12.0	290.4	150	17.68	34.635	3.31	25.090	288.1	0.676
173	15.75	34.614	3.17	1.17		0.00	14.7	246.6	200	14.91	34.598	3.14	25.699	230.2	0.809
199	14.96	34.598	3.15	1.27		0.00	15.6	231.1	250	12.47	34.569	2.81	26.183	184.3	0.915
248	12.55	34.567	2.82	1.63		0.00	20.7	185.8	300	10.69	34.587	2.58	26.529	151.4	1.003
298	10.75	34.586	2.59	1.95		0.00	25.0	152.4	400	8.92	34.605	2.53	26.840	121.8	1.146
349	9.49	34.588	2.47	2.20		0.00	27.3	131.7	500	7.67	34.571	2.41	27.005	106.2	1.269
398	8.95	34.604	2.53	2.23		0.00	27.8	122.2	600	6.91	34.564	2.46	27.108	96.5	1.379
498	7.69	34.570	2.41	2.40		0.00	30.0	106.4	700	6.30	34.560	2.45	27.188	88.9	1.481
599	6.92	34.563	2.46	2.46		0.00	31.1	96.6	800	5.73	34.557	2.44	27.257	82.2	1.577
799	5.74	34.558	2.44	2.60		0.02	32.9	82.3	1000	4.54	34.570	2.36	27.407	67.9	1.748
997	4.55	34.571	2.38	2.78		0.02	34.7	68.0	1200	3.90	34.590	2.41	27.491	60.1	1.897
1007A	4.52	34.573	2.33	2.64E		0.00		67.6	1500	2.90	34.614	2.54	27.608	49.1	2.092
1193	3.85	34.593	2.45V	2.77		0.00	35.0		1750	2.51	34.626	2.66	27.651	45.0	2.234
1207A	3.88	34.590	2.41	2.69		0.00		59.8	2000	2.28	34.637	2.77	27.680	42.3	2.369
1406A	3.12	34.606	2.49	2.69		0.00		51.6	2250	2.17	34.645	2.82	27.695	40.9	2.499
1605A	2.72	34.619	2.60	2.76		0.00		47.2	2500	2.14	34.642	2.83	27.695	40.9	2.629
1804A	2.45	34.627	2.68	2.73		0.00		44.3	2750	2.16	34.645	2.84	27.696	40.8	2.762
2005A	2.28	34.637	2.77	2.57		0.00		42.2	3000	2.18	34.645	2.85	27.694	40.9	2.898
2254A	2.17	34.644	2.82	2.59		0.04		40.9	3250	2.21	34.644	2.77	27.691	41.2	3.038
2505A	2.14	34.641	2.83	2.61		0.04		40.9	3500	2.24	34.645	2.72	27.689	41.4	3.181
2755A	2.16	34.644	2.84	2.72		0.02		40.8	3750	2.27	34.644	2.70	27.686	41.7	3.328
3004A	2.18	34.644	2.85	2.73		0.02		40.9	4000	2.31	34.645	2.66	27.684	41.8	3.479
3254A	2.21	34.643	2.77	2.74		0.04		41.2							
3503A	2.24	34.644	2.72	2.80		0.02		41.4							
3752A	2.272	34.643	2.70	2.73		0.15U		41.7							
3951A	2.305	34.642	2.64	2.83		0.00		42.1							
4000A	2.307	34.645	2.66	2.78		0.00		41.8							
4049A	2.312	34.644	2.63	2.83		0.02		42.0							
4099A	2.318	34.643	2.66	2.80		0.04		42.1							

E) ALL SILICATES AND THE DEEP NITRATES WERE DELETED BECAUSE THE VALUES WERE VERY ERRATIC. THE DEEP PHOSPHATES ARE SOMEWHAT DOUBTFUL.

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INDOPAC LEG VII

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LATITUDE 1 29.0N	LONGITUDE 127 08.2E	MO/DAY/YR 06/21/76	START TIME 0633 GMT			LATITUDE 0 06.2N	LONGITUDE 124 43.4E	MO/DAY/YR 06/23/76	START TIME 0624 GMT		
Z	T	S	SIGMA T	DT	DD	Z	T	S	SIGMA T	DT	DD
0	26.99	34.24	22.171	566.7	0.000	0	27.37	34.20	22.020	581.2	0.000
10	26.95	34.24	22.184	565.5	0.057	10	26.97	34.17	22.125	571.1	0.058
20	26.91	34.24	22.197	564.3	0.115	20	26.51	34.08	22.266	557.7	0.114
30	26.82	34.25	22.233	560.8	0.170	30	26.15	34.04	22.286	555.8	0.170
40	26.75	34.26	22.263	558.0	0.226	40	25.70	34.07	22.444	540.3	0.225
50	26.63	34.28	22.316	552.9	0.281	50	25.37	34.16	22.617	524.1	0.278
75	26.33	34.33	22.447	540.3	0.419	75	25.29	34.39	22.614	505.2	0.408
100	22.04	34.70	23.999	392.0	0.536	100	23.50	34.51	23.439	445.5	0.527
125	19.58	34.67	24.640	331.0	0.627	125	20.71	34.66	24.334	360.2	0.629
150	18.07	34.63	24.991	297.6	0.707	150	17.64	34.62	25.088	288.3	0.711
175	15.30	34.59	25.609	238.8	0.775	175	15.69	34.59	25.522	247.1	0.779
200	13.95	34.56	25.877	213.3	0.833	200	14.49	34.57	25.770	223.5	0.840
225	13.16	34.55	26.032	198.6	0.886	225	12.74	34.53	26.100	192.1	0.893
250	12.55	34.54	26.145	187.6	0.936	250	12.33	34.57	26.211	181.6	0.941
275	12.15	34.56	26.238	179.0	0.984	275	11.11	34.57	26.441	159.8	0.985
300	11.67	34.55	26.322	171.1	1.029	300	10.09	34.56	26.613	143.4	1.025
350	9.99	34.53	26.607	144.0	1.112	350	9.30	34.56	26.746	130.8	1.097
400	9.60	34.55	26.688	136.3	1.186	400	8.84	34.58	26.835	122.3	1.164
450	8.30	34.55	26.896	116.6	1.253	450	8.13	34.56	26.930	113.4	1.227
500	7.46	34.52	26.997	107.0	1.313	500	7.47	34.54	27.011	105.6	1.286
550	7.07	34.52	27.052	101.7	1.369	550	7.22	34.54	27.047	102.2	1.342
600	6.79	34.53	27.099	97.3	1.424	600	6.66	34.55	27.130	94.4	1.395
650	6.39	34.53	27.153	92.3	1.476	650	6.37	34.54	27.163	91.3	1.447
700	5.95	34.54	27.217	86.1	1.525	700	6.01	34.55	27.218	86.1	1.496
750	5.67	34.54	27.252	82.8	1.572	750	5.82	34.55	27.242	83.8	1.543
800	5.53	34.56	27.285	79.7	1.617	800	5.62	34.56	27.274	80.7	1.589
850	5.08	34.54	27.323	76.1	1.661	850	5.21	34.57	27.332	75.3	1.633
900	4.94	34.56	27.355	73.0	1.704	900	4.88	34.57	27.370	71.6	1.675
950	4.70	34.56	27.383	70.4	1.745	950	4.72	34.57	27.388	69.9	1.715
1000	4.51	34.58	27.420	66.9	1.784	1000	4.49	34.57	27.414	67.5	1.755
1100	4.07	34.56	27.467	62.4	1.859	1100	4.18	34.58	27.455	63.6	1.831
1200	3.79	34.59	27.504	59.0	1.930	1200	3.86	34.59	27.497	59.6	1.903
1300	3.46	34.58	27.529	56.6	1.998	1300	3.56	34.60	27.535	56.0	1.971
1400	3.25	34.59	27.557	53.9	2.064	1400	3.13	34.61	27.584	51.4	2.035
1500	2.95	34.60	27.593	50.5	2.126	1500	2.98	34.60	27.590	50.8	2.097
1600	2.74 ^a	34.609	27.618	48.1	2.186	1600	2.725	34.609	27.620	48.0	2.156
1700	2.576	34.616	27.639	46.2	2.243	1700	2.567	34.619	27.642	45.9	2.213
1800	2.335	34.629	27.669	43.3	2.297	1800	2.450	34.626	27.657	44.4	2.268
1900	2.269	34.632	27.677	42.5	2.350	1900	2.368	34.628	27.666	43.6	2.322
2000	2.163	34.637	27.690	41.3	2.401	2000	2.287	34.631	27.675	42.7	2.375
2100	2.102	34.642	27.699	40.5	2.452	2100	2.226	34.634	27.682	42.0	2.428
2200	2.021	34.645	27.708	39.6	2.502	2200	2.180	34.638	27.689	41.4	2.480
2300	1.936	34.650	27.716	38.6	2.551	2300	2.156	34.639	27.692	41.1	2.532
2400	1.888	34.650	27.722	38.3	2.599	2400	2.147	34.640	27.694	41.0	2.584
2500	1.856	34.656	27.729	37.6	2.647	2500	2.144	34.642	27.695	40.8	2.637
2600	1.849	34.654	27.728	37.7	2.695	2600	2.149	34.641	27.694	40.9	2.690
2700	1.843	34.654	27.729	37.7	2.743	2700	2.158	34.644	27.696	40.8	2.743
2800	1.841	34.655	27.730	37.6	2.792	2800	2.164	34.642	27.694	41.0	2.797
2900	1.846	34.657	27.731	37.4	2.840	2900	2.172	34.640	27.692	41.2	2.851
3000	1.84 ^a	34.659	27.732	37.3	2.889	3000	2.183	34.641	27.692	41.2	2.906
						3100	2.193	34.643	27.692	41.1	2.962
						3200	2.206	34.642	27.690	41.3	3.018
						3300	2.217	34.643	27.690	41.3	3.074
						3400	2.228	34.646	27.692	41.2	3.132
						3500	2.241	34.647	27.692	41.2	3.189
						3600	2.252	34.647	27.691	41.3	3.247
						3700	2.263	34.647	27.690	41.4	3.306
						3800	2.276	34.647	27.689	41.4	3.365
						3900	2.289	34.647	27.688	41.6	3.425
						4000	2.301	34.646	27.686	41.7	3.486
						4100	2.314	34.647	27.685	41.7	3.547

RV THOMAS WASHINGTON

INDOPAC LEG VII

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LATITUDE 0 56.85		LONGITUDE 126 48.6E		MO/DAY/YR 8/24/76		MESSENGER 0910 1140		TIME GMT	BOTTOM 4770M	WIND 120	SPEED 3KT	WEATHER C	DOMINANT WAVES			
Z	T	S	Q2	Q04	SIG3	N02	N03	DT	Z	T	S	Q2	SIGT	DT	DD	
0	27.15	34.315	4.81	0.17	2.3	0.2	566.2	0	27.15	34.315	4.81	22.177	566.2	0.000		
10	27.02	34.401	4.87	0.24	2.5	0.2	550.3	10	27.02	34.401	4.87	22.343	550.3	0.056		
20	26.96	34.472	4.80	0.25	2.5	0.3	549.1	20	26.96	34.472	4.80	22.355	549.1	0.111		
31	26.84	34.45	4.81	0.30	2.5	0.4	547.0	30	26.86	34.456	4.81	22.375	547.2	0.166		
50	25.67	34.429	4.44	0.34	4.2	2.2	515.1	50	25.87	34.489	4.44	22.711	515.1	0.272		
75	25.20	34.468	4.06	0.46	5.5	4.2	496.9	75	25.20	34.468	4.06	22.901	496.9	0.399		
100	23.47	34.509	3.67	0.73	8.3	6.9	444.3	100	23.47	34.509	3.67	23.447	444.3	0.518		
125	19.85	34.616	3.42	0.91	14.1	10.9	341.2	125	19.85	34.616	3.42	24.527	341.2	0.617		
150	18.19	34.632	3.34	1.01	16.4	12.6	300.2	150	18.19	34.632	3.34	24.963	300.2	0.699		
175	17.22	34.630	3.27	1.14	18.9	14.0	277.9	200	16.14	34.620	3.16	25.442	254.6	0.840		
200	16.14	34.620	3.16	1.26	22.5	15.7	254.6	250	12.75	34.606	2.75	26.156	186.6	0.954		
249	12.76	34.604	2.75	1.78	39.2	23.3	187.4	300	11.80	34.617	2.69	26.348	168.6	1.046		
299	11.83	34.616	2.69	1.97	43.0	25.2	169.1	400	9.20	34.640	2.60	26.824	123.4	1.200		
399	9.22	34.640	2.60	2.27	56.0	29.5	123.7	500	7.65	34.591	2.46	27.024	104.4	1.322		
498	7.67	34.590	2.46	2.46	63.9	32.4	104.7	600	6.99	34.575	2.41	27.106	96.7	1.431		
598	7.00	34.574	2.41	2.55	65.9	33.6	96.8	700	6.36	34.556	2.44	27.177	89.9	1.535		
698	6.37	34.555	2.44	2.7	66.40	34.7	90.1	800	5.87	34.592	2.44	27.267	81.4	1.631		
798	5.88	34.592	2.44	2.8	86.3	35.2	81.4	1000	4.96	34.585	2.43	27.372	71.4	1.805		
897	5.28	34.563	2.38	2.8	83.20	36.6	76.6	1200	3.79	34.592	2.40	27.504	58.9	1.957		
943A	4.69	34.581	2.35	2.8	95.8	37.4	68.7	1500	2.98	34.612	2.54	27.599	50.0	2.152		
996	4.97	34.534	2.43	2.8	94.0	36.6	71.5	1750	2.47	34.628	2.68	27.656	44.5	2.295		
1144A	4.01	34.586	2.38	2.8	107.7	38.0	61.4	2000	2.21	34.640	2.79	27.688	41.5	2.427		
1343A	3.40	34.603	2.48	2.9	119.5	38.2	54.3	2250	2.09	34.644	2.87	27.701	40.3	2.555		
1543A	2.86	34.613	2.56	2.9	128.8	38.7	49.0	2500	2.04	34.644	2.90	27.708	39.6	2.681		
1742A	2.48	34.626	2.68	2.9	135.9	38.5	44.7	2750	2.01	34.651	2.95	27.712	39.2	2.809		
1942A	2.25	34.637	2.76	2.9	140.0	38.4	42.0	3000	2.02	34.651	2.96	27.712	39.3	2.938		
2191A	2.11	34.643	2.80	2.9	142.0	38.3	40.5	3250	2.05	34.652	2.96	27.710	39.4	3.071		
2441A	2.05	34.646	2.89	2.9	144.2	38.3	39.8	3500	2.07	34.651	2.94	27.708	39.7	3.207		
2691A	2.01	34.650	2.94	2.9	145.1	38.1	39.2	3750	2.10	34.652	2.96	27.706	39.8	3.346		
2940A	2.02	34.650	2.96	2.9	145.0	38.1	39.3	4000	2.13	34.652	2.97	27.704	40.0	3.489		
3190A	2.04	34.651	2.97	2.9	145.2	38.1	39.3	4250	2.16	34.653	2.97	27.702	40.1	3.635		
3440A	2.07	34.650	2.94	2.9	145.0	37.6	39.6	4500	2.19	34.653	2.98	27.699	40.4	3.785		
3689A	2.09	34.651	2.96	2.9	144.9	37.6	39.7									
3939A	2.12	34.651	2.97	2.9	144.8	37.8	39.9									
4187A	2.15	34.652	2.97	2.9	144.7	37.7	40.1									
4438A	2.182	34.652	2.98	2.9	144.8	37.9	40.3									
4538A	2.20	34.652	2.98	2.9	145.2	37.8	40.5									
4636A	2.207	34.651	2.98	2.9	144.3	37.7	40.6									
4686A	2.211	34.651	2.98	2.9	145.0	37.8	40.7									
4737A	2.219	34.650	2.97	2.9	144.6	37.5	40.8									

RV THOMAS WASHINGTON

INDOPAC LEG VII

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LATITUDE 1 50.05		LONGITUDE 126 56.6E		MO/DAY/YR 8/25/76		MESSENGER 0442 GMT		TIME GMT	BOTTOM 2025M	WIND 160	SPEED 12KT	WEATHER U	DOMINANT WAVES 160 4 4			
Z	T	S	Q2	Q04	SIG3	N02	N03	DT	Z	T	S	Q2	SIGT	DT	DD	
1	26.27	34.465	4.94	0.35	4.1	0.6	528.8	0	26.27	34.465	4.94	22.568	528.8	0.000		
10	26.21	34.462	4.89	0.37	4.1	0.7	527.2	10	26.21	34.462	4.89	22.584	527.2	0.053		
21	26.08	34.459	4.77	0.37	4.0	0.9	523.5	20	26.10	34.460	4.79	22.617	524.0	0.105		
30	25.79	34.448	4.57	0.40	4.5	2.0	515.7	30	25.79	34.448	4.57	22.704	515.7	0.158		
48	24.46	34.249	3.98	0.44	7.6	5.7	491.4	50	24.37	34.245	3.97	22.980	489.3	0.258		
73	23.79	34.270	3.81	0.72	9.6	7.2	470.9	75	23.75	34.275	3.80	23.187	469.6	0.379		
95	23.48	34.317	3.67	0.78	10.4	8.1	458.9	100	23.43	34.321	3.67	23.316	457.2	0.495		
118	23.24	34.330	3.63	0.86	11.4	8.3	451.3	125	22.28	34.385	3.55	23.692	421.4	0.606		
144	19.14	34.571	3.28	1.05	19.3	13.0	327.4	150	18.31	34.588	3.21	24.899	306.4	0.699		
167	16.38	34.602	3.06	1.33	25.4	17.0	261.2	200	14.65	34.623	2.91	25.775	223.0	0.834		
191	15.07	34.618	2.95	1.39	30.3	19.3	231.9	250	12.65	34.640	2.73	26.202	182.4	0.938		
283	11.63	34.636	2.64	1.84	45.9	25.8	164.0	300	11.13	34.630	2.60	26.483	155.7	1.026		
377	9.38	34.595	2.47	2.16	57.9	30.0	129.5	400	9.10	34.598	2.48	26.806	125.1	1.174		
469	8.49	34.598	2.49	2.24	64.1	31.3	115.8	500	8.15	34.591	2.47	26.950	111.5	1.301		
561	7.47	34.575	2.42	2.47	64.6	33.1	103.0	600	7.00	34.582	2.43	27.109	96.4	1.414		
650	6.53	34.592	2.44	2.41	76.7	34.5	89.4	700	6.47	34.597	2.46	27.194	88.3	1.516		
736	6.42	34.598	2.47	2.50	83.6	34.6	87.5	800	6.30	34.598	2.46	27.217	86.2	1.614		
821	6.26	34.596	2.45	2.54	84.1	34.8	85.7	1000	4.61	34.585	2.44	27.412	67.7	1.790		
904	5.36	34.580	2.44	2.75	88.7	36.3	76.2	1200	4.06	34.600	2.47	27.483	61.0	1.940		
1059	4.298	34.590	2.44	2.79	104.7	37.5	64.0	1500	3.56	34.603	2.54	27.536	55.9	2.151		
1220	4.05 K	34.599	2.48	2.72	111.4	38.0	60.8									
1373	3.745	34.601	2.51	2.73	114.7	38.2	57.7									
1525	3.512	34.602	2.55	2.76	118.0	38.6	55.4									
1602	3.256	34.607	2.55	2.86	120.4	38.4	52.7									

LATITUDE N 5°,45'		LONGITUDE 126 48.6E		MO/DAY/YR 08/24/76		START TIME 0900 GMT		LATITUDE 1 50.0S		LONGITUDE 126 56.0E		MO/DAY/YR 08/25/76		START TIME 0301 GMT	
Z	T	S	SIGMA T	DT	DD	Z	T	S	SIGMA T	DT	DD	Z	T	S	SIGMA T
0	27.45	34.45	22.182	565.7	0.000	0	26.31	34.45	22.544	531.0	0.000	0	26.31	34.45	22.544
10	27.13	34.47	22.299	554.4	0.056	10	26.26	34.46	22.567	528.8	0.053	10	26.26	34.46	22.567
20	26.96	34.46	22.346	550.0	0.111	20	26.18	34.46	22.592	526.4	0.106	20	26.18	34.46	22.592
30	26.70	34.46	22.429	542.1	0.166	30	25.94	34.45	22.659	520.0	0.158	30	25.94	34.45	22.659
40	26.33	34.46	22.555	530.0	0.220	40	25.29	34.40	22.822	504.5	0.210	40	25.29	34.40	22.822
50	25.93	34.45	22.644	521.5	0.273	50	24.84	34.35	22.921	495.0	0.260	50	24.84	34.35	22.921
75	25.61	34.50	22.799	506.6	0.402	75	24.32	34.34	23.069	480.8	0.382	75	24.32	34.34	23.069
100	24.90	34.46	22.986	488.6	0.527	100	23.60	34.30	23.251	463.5	0.501	100	23.60	34.30	23.251
125	22.86	34.52	23.631	427.2	0.643	125	21.63	34.49	23.954	396.3	0.610	125	21.63	34.49	23.954
150	19.95	34.59	24.482	346.0	0.740	150	18.83	34.59	24.846	311.3	0.699	150	18.83	34.59	24.846
175	18.05	34.59	24.965	300.0	0.823	175	15.89	34.60	25.484	250.6	0.771	175	15.89	34.60	25.484
200	16.34	34.61	25.389	259.7	0.894	200	14.33	34.60	25.827	218.0	0.831	200	14.33	34.60	25.827
225	13.85	34.59	25.921	209.1	0.954	225	12.26	34.57	26.225	180.3	0.882	225	12.26	34.57	26.225
250	12.40	34.61	26.229	179.9	1.004	250	11.74	34.62	26.363	167.2	0.927	250	11.74	34.62	26.363
275	10.66	34.57	26.521	152.1	1.047	275	11.74	34.63	26.370	166.4	0.970	275	11.74	34.63	26.370
300	9.84	34.63	26.710	134.2	1.085	300	11.69	34.64	26.388	164.8	1.013	300	11.69	34.64	26.388
350	8.87	34.58	26.831	122.8	1.152	350	10.06	34.60	26.649	140.0	1.093	350	10.06	34.60	26.649
400	8.25	34.56	26.927	113.6	1.215	400	9.46	34.58	26.737	131.7	1.165	400	9.46	34.58	26.737
450	7.53	34.57	27.026	104.2	1.273	450	8.93	34.59	26.829	122.9	1.233	450	8.93	34.59	26.829
500	7.16	34.56	27.071	100.0	1.326	500	8.64	34.61	26.890	117.1	1.298	500	8.64	34.61	26.890
550	6.68	34.55	27.130	94.4	1.381	550	7.92	34.57	26.963	110.2	1.359	550	7.92	34.57	26.963
600	6.39	34.54	27.160	91.5	1.431	600	7.07	34.56	27.099	97.3	1.416	600	7.07	34.56	27.099
650	6.24	34.54	27.180	89.6	1.481	650	6.61	34.58	27.163	91.3	1.468	650	6.61	34.58	27.163
700	5.99	34.56	27.244	83.6	1.529	700	6.52	34.60	27.190	88.7	1.518	700	6.52	34.60	27.190
750	5.33	34.55	27.302	78.1	1.574	750	6.36	34.60	27.209	86.9	1.567	750	6.36	34.60	27.209
800	5.23	34.56	27.331	75.3	1.617	800	5.97	34.60	27.262	81.9	1.615	800	5.97	34.60	27.262
850	4.99	34.56	27.366	72.1	1.659	850	5.42	34.58	27.315	76.9	1.660	850	5.42	34.58	27.315
900	4.73	34.57	27.387	70.0	1.699	900	4.93	34.59	27.380	70.7	1.702	900	4.93	34.59	27.380
950	4.60	34.57	27.402	68.6	1.739	950	4.66	34.59	27.411	67.8	1.741	950	4.66	34.59	27.411
1000	4.34	34.58	27.434	65.6	1.776	1000	4.46	34.60	27.441	64.9	1.780	1000	4.46	34.60	27.441
1100	4.11	34.58	27.463	62.8	1.852	1100	4.23	34.59	27.458	63.3	1.854	1100	4.23	34.59	27.458
1200	3.79	34.59	27.504	59.0	1.923	1200	4.14	34.60	27.476	61.6	1.928	1200	4.14	34.60	27.476
1300	3.47	34.60	27.544	55.2	1.991	1300	3.80	34.60	27.511	58.3	1.999	1300	3.80	34.60	27.511
1400	3.00	34.61	27.596	50.2	2.053	1400	3.76	34.60	27.516	57.8	2.069	1400	3.76	34.60	27.516
1500	2.91	34.62	27.612	48.7	2.113	1500	3.71	34.60	27.520	57.4	2.139	1500	3.71	34.60	27.520
1600	2.76	34.62	27.626	47.4	2.171	1600	2.88	34.610	27.607	49.2	2.204	1600	2.88	34.610	27.607
1700	2.577	34.630	27.650	45.1	2.227	1700	2.697	34.612	27.625	47.5	2.262	1700	2.697	34.612	27.625
1800	2.418	34.636	27.668	43.4	2.291	1800	2.562	34.618	27.641	45.9	2.320	1800	2.562	34.618	27.641
1900	2.316	34.636	27.677	42.6	2.334	1900	2.327	34.628	27.669	43.3	2.374	1900	2.327	34.628	27.669
2000	2.195	34.642	27.691	41.2	2.386	2000	2.331	34.627	27.668	43.4	2.428	2000	2.331	34.627	27.668
2100	2.159	34.643	27.695	40.9	2.437										
2200	2.103	34.646	27.702	40.2	2.487										
2300	2.078	34.647	27.705	39.9	2.538										
2400	2.062	34.648	27.707	39.7	2.588										
2500	2.048	34.648	27.708	39.6	2.639										
2600	2.024	34.650	27.711	39.3	2.690										
2700	2.019	34.650	27.712	39.3	2.741										
2800	2.018	34.652	27.714	39.1	2.792										
2900	2.023	34.649	27.711	39.4	2.844										
3000	2.029	34.650	27.711	39.3	2.896										
3100	2.036	34.649	27.710	39.5	2.949										
3200	2.045	34.649	27.709	39.5	3.002										
3300	2.056	34.649	27.708	39.6	3.056										
3400	2.064	34.650	27.708	39.6	3.110										
3500	2.074	34.649	27.707	39.7	3.165										
3600	2.084	34.649	27.706	39.6	3.220										
3700	2.094	34.650	27.706	39.6	3.276										
3800	2.104	34.649	27.704	40.0	3.333										
3900	2.116	34.649	27.703	40.1	3.390										
4000	2.128	34.649	27.702	40.2	3.447										
4100	2.139	34.649	27.701	40.2	3.506										
4200	2.152	34.650	27.701	40.3	3.564										
4300	2.163	34.650	27.700	40.4	3.624										
4400	2.176	34.650	27.699	40.4	3.684										
4500	2.188	34.649	27.697	40.6	3.744										
4600	2.200	34.650	27.697	40.6	3.805										
4700	2.213	34.653	27.699	40.5	3.867										

RV THOMAS WASHINGTON

INDOPAC LEG VII

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LATITUDE		LONGITUDE		MO/DAY/YR		MESSENGER		TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES		
3 15.0S		125 20.2E		8/25/76		1859 2208		GMT	5334M	140	17KT	2	140	4 5	
Z	T	S	Q2	P04	SIO3	NO2	NO3	DT	Z	T	S	Q2	SIOT	DT	DD
0	26.10	34.089	4.80	0.32	1.3	0.13	0.5	550.7	0	26.10	34.089	4.80	22.338	550.7	0.000
10	26.05	34.088	4.76	0.30	1.3	0.07	0.5	549.3	10	26.05	34.088	4.76	22.353	549.3	0.085
20	26.05	34.084	4.80	0.27	1.2	0.15	0.4	549.6	20	26.05	34.084	4.80	22.350	549.6	0.110
31	25.98	34.086	4.77	0.36	1.2	0.18	0.6	547.4	30	25.99	34.087	4.77	22.371	547.6	0.165
50	23.05	34.328	3.36	0.92	11.0	0.16	9.5	446.2	50	23.05	34.328	3.36	23.432	446.2	0.265
75	21.84	34.410	3.24	1.04	13.1	0.04	11.0	407.7	75	21.84	34.410	3.24	23.835	407.7	0.372
100	20.32	34.477	3.28	1.14	15.4	0.04	11.8	363.5	100	20.32	34.477	3.28	24.299	363.5	0.469
125	19.78	34.525	3.25	1.22	16.7	0.02	12.8	346.5	125	19.78	34.525	3.25	24.477	346.5	0.559
150	17.87	34.587	3.12	1.27	21.6	0.04	15.2	296.0	150	17.87	34.587	3.12	25.007	296.0	0.640
175	16.71	34.607	3.04	1.35	24.4	0.02	17.0	268.1	200	16.24	34.602	2.99	25.413	257.4	0.761
200	16.21	34.602	2.99	1.40	26.4	0.02	17.7	257.4	250	13.78	34.573	2.78	25.922	209.0	0.901
250	13.78	34.573	2.78	1.65	33.7	0.00	21.5	209.0	300	12.47	34.560	2.62	26.176	184.9	1.003
300	12.47	34.560	2.62	1.85	39.1	0.00	24.0	184.9	400	8.86	34.553	2.46	26.811	124.7	1.166
399	8.88	34.552	2.46	2.19	55.1	0.00	30.6	125.0	500	7.48	34.574	2.30	27.035	103.4	1.284
499	7.49	34.572	2.30	2.40	67.5	0.00	33.2	103.5	600	6.69	34.599	2.37	27.166	91.0	1.394
598	6.70	34.597	2.37	2.59	80.2	0.00	34.2	91.2	700	6.01	34.602	2.40	27.258	32.2	1.490
796	5.45	34.597	2.42	2.66	93.7	0.00	36.0	76.0	800	5.43	34.598	2.42	27.327	75.7	1.579
996	4.56	34.603	2.45	2.67	105.9	0.00	37.0	65.7	1000	4.55	34.604	2.45	27.434	65.6	1.740
1193	3.97	34.609	2.46	2.72	114.5	0.00	37.6	59.3	1200	4.00	34.610	2.46	27.497	59.6	1.887
1218A	4.08	34.609	2.40U	2.70	114.2	0.00	37.6	60.4	1500	3.61	34.612	2.49	27.538	59.7	2.094
1388	3.64	34.613	2.47	2.77	120.0	0.00	38.1	55.8	1750	3.40	34.616	2.50	27.562	53.4	2.262
1417A	3.66	34.611	2.49	2.75	119.9	0.02	38.0	56.1	2000	3.25	34.616	2.50	27.577	52.1	2.429
1616A	3.48	34.615	2.49	2.81	123.8	0.03	38.2	54.2	2250	3.11	34.620	2.56	27.593	50.5	2.595
1816A	3.37	34.616	2.51	2.85	125.9	0.01	38.6	53.1	2500	3.06	34.620	2.59	27.598	50.1	2.761
2016A	3.24	34.615	2.50	2.83	127.9	0.01	38.6	52.0	2750	3.03	34.619	2.61	27.600	49.9	2.930
2265A	3.10	34.619	2.56	2.89	129.7	0.01	38.8	50.4	3000	3.03	34.620	2.62	27.600	49.8	3.102
2514A	3.06	34.619	2.59	2.91	129.6	0.03	38.6	50.1	3250	3.05	34.619	2.64	27.598	50.0	3.278
2764A	3.03	34.618	2.61	2.82	130.2	0.03	38.8	49.9	3500	3.06	34.619	2.61	27.597	50.1	3.459
3013A	3.03	34.619	2.62	2.85	129.8	0.01	38.8	49.8	3750	3.09	34.620	2.61	27.595	50.3	3.644
3262A	3.05	34.618	2.64	2.82	130.0	0.05	38.9	50.1	4000	3.12	34.622	2.62	27.594	50.4	3.833
3511A	3.06	34.618	2.61	2.87	130.2	0.01	39.0	50.1	4250	3.15	34.621	2.61	27.590	50.8	4.027
3760A	3.09	34.619	2.61	2.86	130.2	0.00	38.9	50.3	4500	3.18	34.621	2.62	27.587	51.0	4.226
4009A	3.12	34.621	2.62	2.9	132.2	0.00	39.0	50.4	4750	3.21	34.621	2.60	27.584	51.3	4.430
4259A	3.15	34.620	2.61	2.84	132.7	0.01	39.0	50.8	5000	3.25	34.620	2.61	27.580	51.7	4.639
4508A	3.18	34.620	2.62	2.89	131.8	0.02	39.2	51.1	5250	3.28	34.621	2.63	27.578	51.9	4.854
4757A	3.214	34.620	2.60	2.86	131.5	0.00	39.0	51.4							
5007A	3.249	34.619	2.61	2.92	130.7	0.02	38.9	51.7							
5108A	3.263	34.620	2.67	2.9	130.6	0.04	38.9	51.8							
5208A	3.278	34.620	2.62	2.9	131.6	0.02	38.9	51.9							
5309A	3.285	34.620	2.64	2.94	131.6	0.04	39.0	52.0							

RV THOMAS WASHINGTON

INDOPAC LEG VII

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	LATITUDE		LONGITUDE		MO/DAY/YR		MESSENGER		TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES	
	6 27.0S		126 00.2E		8/26/76		233A		0152	GMT	4398M	120	19KT	0	130 6 6
Z	T	S	Q2	P04	SIO3	NO2	NO3	DT	Z	T	S	Q2	SIOT	DT	DD
1	26.04	34.115	4.82	0.17	3.1	0.05	0.4	547.1	0	26.04	34.115	4.82	22.376	547.1	0.000
10	26.02	34.114	4.80	0.22	3.0	0.05	0.4	546.6	10	26.02	34.114	4.80	22.382	546.6	0.055
20	26.02	34.115	4.82	0.19	3.0	0.07	0.6	546.5	20	26.02	34.115	4.82	22.383	546.5	0.109
31	25.99	34.114	4.79	0.20	3.0	0.07	0.6	545.7	30	25.99	34.115	4.79	22.390	545.8	0.164
50	25.99	34.117	4.77	0.20	3.2	0.11	0.6	545.5	50	25.99	34.117	4.77	22.393	545.5	0.274
75	24.90	34.231	4.22	0.39	5.5	0.58	3.2	505.3	75	24.90	34.231	4.22	22.813	505.3	0.406
99	22.45	34.509	3.61	0.90	15.5	0.00	13.0	416.8	100	22.37	34.516	3.60	23.767	414.2	0.521
125	20.31	34.586	3.44	0.75	12.9	0.02	9.6	355.3	125	20.31	34.586	3.44	24.324	355.3	0.618
150	17.82	34.600	3.40	0.91	17.3	0.02	12.0	293.0	150	17.82	34.600	3.40	25.029	293.9	0.701
174	15.33	34.572	3.18	1.17	22.7	0.02	16.0	240.7	200	13.83	34.568	2.76	25.908	210.3	0.829
200	13.83	34.568	2.76	1.64	31.4	0.02	21.0	210.3	250	11.44	34.531	2.56	26.350	168.4	0.927
250	11.44	34.531	2.56	1.89	40.9	0.00	25.3	168.4	300	10.01	34.529	2.42	26.603	144.4	1.008
300	10.01	34.529	2.42	2.03	48.4	0.02	28.4	144.4	400	8.46	34.542	2.32	26.865	119.5	1.147
400	8.46	34.542	2.32	2.27	56.4	0.00	31.6	119.5	500	7.28	34.558	2.24	27.053	101.7	1.266
500	7.28	34.558	2.24	2.44	69.6	0.00	33.4	101.7	600	6.56	34.563	2.27	27.156	91.9	1.371
601	6.55	34.563	2.27	2.56	77.3	0.02	34.7	91.8	700	5.97	34.574	2.29	27.241	83.8	1.468
701	5.96	34.573	2.29	2.62	87.4	0.02	35.3	83.8	800	5.38	34.583	2.33	27.321	76.3	1.558
802	5.37	34.582	2.33	2.61	96.0	0.02	36.0	76.2	1000	4.56	34.600	2.40	27.430	65.9	1.720
984A	4.56	34.602	2.38	2.6	107.4	0.00	37.3	65.8	1200	4.17	34.606	2.43	27.476	61.6	1.870
1000	4.56	34.600	2.40	2.66	108.0	0.02	36.9	65.9	1500	3.58	34.612	2.43	27.542	55.4	2.061
1196	4.18	34.604	2.43	2.71	114.0	0.00	37.4	61.7	1750	3.39	34.616	2.45	27.564	53.3	2.249
1234A	4.08	34.607	2.41	2.78	115.7	0.03	37.7	60.5	2000	3.22	34.617	2.49	27.580	51.7	2.415
1483A	3.60	34.611	2.43	2.80	124.3	0.00	38.2	55.6	2250	3.17	34.618	2.50	27.586	51.2	2.581
1732A	3.40	34.615	2.45	2.8	127.9	0.00	38.5	53.4	2500	3.12	34.618	2.48	27.591	50.7	2.750
1983A	3.23	34.616	2.49	2.8	130.2	0.03	38.7	51.8	2750	3.08	34.618	2.54	27.595	50.4	2.921
2232A	3.17	34.617	2.50	2.82	132.0	0.06	38.8	51.2	3000	3.07	34.621	2.53	27.598	50.1	3.095
2481A	3.12	34.617	2.48	2.77	132.7	0.06	38.8	50.7	3250	3.07	34.621	2.55	27.597	50.1	3.272
2732A	3.08	34.617	2.54	2.78	132.7	0.04	38.8	50.4	3500	3.10	34.619	2.55	27.593	50.5	3.454
2981A	3.07	34.620	2.53	2.82	133.1	0.04	38.9	50.1	3750	3.13	34.619	2.54	27.590	50.8	3.640
3230A	3.07	34.620	2.55	2.8	133.4	0.05	39.2	50.1	4000	3.16	34.620	2.56	27.588	51.0	3.832
3479A	3.10	34.618	2.53	2.88	133.3	0.03	38.9	50.5	4250	3.20	34.622	2.54	27.586	51.1	4.028
3728A	3.13	34.618	2.54	2.86	133.5	0.03	38.7	50.8							
3977A	3.158	34.619	2.56	2.8	133.2	0.01	38.9	50.9							
4078A	3.177	34.619	2.54	2.79	133.4	0.00	38.9	51.1							
4177A	3.185	34.620	2.54	2.8	133.1	0.04	38.8	51.1							
4276A	3.204	34.621	2.54	2.81	133.1	0.04	38.8	51.2							
4376A	3.210	34.617	2.51	2.82	133.0	0.02	38.9	51.5							

RV THOMAS WASHINGTON

INDOPAC LEG VII

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LATITUDE		LONGITUDE		MO/DAY/YR		MESSENGER		TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES			
7 37.2S		127 49.5E		8/27/76		1620		GMT	3767M	130	13KT		130			
Z	T	S	O2	P04	SIG3	N02	N03	DT	Z	T	S	O2	SIGT	DT	DD	
1	25.50	33.920	4.86	0.24	2.6	0.20	0.4	545.2	0	25.50	33.920	4.86	22.396	545.2	0.000	
20	25.53	33.919	4.84	0.20	2.6	0.20	0.4	546.1	10	25.52	33.921	4.85	22.392	545.6	0.055	
50	25.56	34.001	4.83	0.24	2.5	0.20	0.4	541.1	20	25.53	33.919	4.84	22.386	546.1	0.109	
75	24.41	34.317	3.94	0.57	7.2	0.56	5.5	465.1	30	25.54	33.948	4.84	22.404	544.5	0.164	
99	22.46	34.520	2.89	0.89	14.6	0.07	13.1	416.3	50	25.56	34.001	4.83	22.439	541.1	0.273	
149	18.55	34.612	2.72	1.22	22.9	0.04	17.2	310.2	75	24.41	34.317	3.94	23.025	485.1	0.402	
199	15.05	34.593	2.71	1.46	30.3	0.02	20.7	233.3	100	22.38	34.525	2.89	23.771	413.6	0.515	
297	11.25	34.551	2.43	1.91	45.0	0.02	27.1	163.6	125	20.39	34.603	2.80	24.375	356.2	0.612	
496	7.27	34.564	2.25	2.44	69.5	0.02	34.2	101.1	150	18.47	34.613	2.72	24.877	308.4	0.696	
744	5.86	34.579	2.28	2.6	87.6	0.00	36.3	82.1	200	15.00	34.594	2.71	25.677	232.3	0.834	
992	4.64	34.597	2.37	2.71	106.8	0.02	37.8	67.0	250	12.74	34.578	2.58	26.135	186.7	0.943	
1241	3.98	34.606	2.43	2.78	118.0	0.00	38.2	59.6	300	11.16	34.551	2.42	26.416	162.1	1.034	
1491	3.59	34.611	2.44	2.76	124.0	0.00	38.8	55.5	400	8.72	34.560	2.29	26.838	122.0	1.163	
1740	3.38	34.612	2.45	2.80	127.7	0.00	39.1	53.5	500	7.23	34.565	2.25	27.065	100.6	1.302	
1988	3.27	34.615	2.46	2.8	129.5	0.00	39.2	52.2	600	6.43	34.582	2.26	27.167	88.9	1.405	
2335	3.09	34.618	2.52	2.78	132.1	0.00	39.5	50.4	700	5.96	34.585	2.27	27.250	81.0	1.501	
2683	3.07	34.617	2.53	2.78	133.6	0.00	39.6	50.3	800	5.55	34.584	2.30	27.301	78.2	1.591	
3026	3.07	34.624	2.53	2.78	133.8	0.00	39.5	49.8	1000	4.61	34.599	2.37	27.422	66.7	1.757	
3467	3.107	34.619	2.55	2.8	134.1	0.00	39.5	50.5	1200	4.06	34.607	2.42	27.468	60.4	1.906	
3711	3.138	34.617	2.54	2.81	133.8	0.00	39.5	50.9	1500	3.58	34.612	2.44	27.542	55.4	2.114	
									1750	3.37	34.613	2.45	27.562	53.4	2.282	
									2000	3.26	34.616	2.46	27.575	52.2	2.449	
									2250	3.13	34.618	2.51	27.589	50.8	2.616	
									2500	3.08	34.619	2.52	27.595	50.4	2.783	
									2750	3.07	34.620	2.53	27.596	50.2	2.953	
									3000	3.07	34.625	2.53	27.600	49.8	3.126	
									3250	3.09	34.623	2.54	27.597	50.0	3.303	
									3500	3.11	34.620	2.55	27.593	50.5	3.485	

RV THOMAS WASHINGTON

INDOPAC LEG VII

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LATITUDE		LONGITUDE		MO/DAY/YR		MESSENGER		TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES			
8 49.7S		128 34.7E		8/28/76		0307		GMT	2070M	120	8KT	1	130 2 4			
Z	T	S	O2	P04	SIG3	N02	N03	DT	Z	T	S	O2	SIGT	DT	DD	
1	25.64	33.953	4.92	0.22	0.7	0.00	0.1	546.9	0	25.64	33.953	4.92	22.378	546.9	0.000	
15	25.45	33.947	4.91	0.21	0.7	0.02	0.1	541.8	10	25.50	33.950	4.91	22.419	543.0	0.055	
31	25.41	33.944	4.90	0.21	0.9	0.02	0.1	540.8	20	25.44	33.947	4.91	22.435	541.5	0.109	
50	23.77	34.341	3.03	0.80	11.6	0.06	10.5	465.3	30	25.41	33.946	4.90	22.441	540.9	0.163	
75	22.23	34.539	2.74	0.94	15.7	0.03	13.6	408.7	50	23.77	34.341	3.03	23.232	465.3	0.264	
99	20.75	34.585	2.72	1.13	18.5	0.03	15.1	366.6	75	22.23	34.539	2.74	23.824	408.7	0.374	
150	17.77	34.598	2.68	1.35	24.7	0.01	18.0	292.9	100	20.69	34.587	2.72	24.282	365.1	0.471	
200	14.35	34.590	2.55	1.62	34.3	0.01	22.6	219.1	125	19.25	34.604	2.71	24.674	327.8	0.559	
299	11.41	34.557	2.47	1.97	44.2	0.02	26.6	166.0	150	17.77	34.598	2.68	25.040	292.9	0.638	
400	9.16	34.559	2.30	2.25	57.0	0.02	31.0	128.7	200	14.35	34.590	2.55	25.815	219.1	0.768	
500	7.80	34.566	2.26	2.42	67.8	0.02	33.5	108.3	250	12.50	34.587	2.50	26.190	183.5	0.872	
601	6.91	34.570	2.24	2.55	76.0	0.00	35.0	95.9	300	11.38	34.557	2.47	26.380	165.5	0.963	
700	6.13	34.580	2.31	2.59	84.5	0.00	36.1	85.3	400	9.16	34.559	2.30	26.768	128.7	1.117	
801	5.48	34.589	2.32	2.69	96.5	0.01	36.8	76.9	500	7.80	34.566	2.26	26.984	108.3	1.244	
1000	4.75	34.597	2.37	2.76	107.3	0.01	36.9	68.2	600	6.92	34.571	2.24	27.113	96.0	1.355	
1201	4.10	34.612	2.44	2.84	117.6	0.00	37.3	60.3	700	6.13	34.580	2.31	27.226	85.3	1.455	
1400	3.52	34.639	2.58	2.76	123.4	0.00	37.5	52.7	800	5.49	34.590	2.32	27.314	77.0	1.546	
1600	3.06	34.677	2.83	2.70	128.7	0.00	36.8	45.7	1000	4.75	34.597	2.37	27.406	68.2	1.713	
1797	2.913	34.689	2.92	2.74	130.2	0.01	36.8	43.5	1200	4.10	34.613	2.44	27.489	60.4	1.863	
1994	2.788	34.702	3.02	2.73	130.5	0.02	36.8	41.5	1500	3.26	34.660	2.71	27.610	48.9	2.061	
									1750	2.93	34.688	2.91	27.663	43.8	2.206	
									2000	2.78	34.702	3.02	27.689	41.4	2.343	

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SCRIPPS INSTITUTION OF OCEANOGRAPHY LA JOLLA CALIF
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LATITUDE 7 37.2S			LONGITUDE 127 49.5E			MO/DAY/YR 08/27/76			START TIME 1517 GMT			LATITUDE 6 49.7S			LONGITUDE 128 34.7E			MO/DAY/YR 08/28/76			START TIME 0138 GMT		
Z	T	S	SIGMA T	DT	DD	Z	T	S	SIGMA T	DT	DD	Z	T	S	SIGMA T	DT	DD	Z	T	S	SIGMA T	DT	DD
0	25.60	33.92	22.366	548.1	0.000	0	25.62	33.95	22.382	546.6	0.000	0	25.62	33.95	22.382	546.6	0.000	0	25.62	33.95	22.382	546.6	0.000
10	25.56	33.92	22.378	546.9	0.055	10	25.51	33.95	22.416	543.3	0.055	10	25.51	33.95	22.416	543.3	0.055	10	25.51	33.95	22.416	543.3	0.055
20	25.55	33.92	22.381	546.7	0.110	20	25.44	33.95	22.437	541.3	0.109	20	25.44	33.95	22.437	541.3	0.109	20	25.44	33.95	22.437	541.3	0.109
30	25.56	33.93	22.385	546.2	0.164	30	25.42	33.95	22.443	540.7	0.163	30	25.42	33.95	22.443	540.7	0.163	30	25.42	33.95	22.443	540.7	0.163
40	25.57	33.96	22.405	544.4	0.219	40	25.40	33.96	22.457	539.4	0.217	40	25.40	33.96	22.457	539.4	0.217	40	25.40	33.96	22.457	539.4	0.217
50	25.60	34.04	22.456	539.5	0.273	50	25.25	33.97	22.510	534.3	0.271	50	25.25	33.97	22.510	534.3	0.271	50	25.25	33.97	22.510	534.3	0.271
75	24.82	34.34	22.919	495.2	0.403	75	22.76	33.48	22.874	499.6	0.401	75	22.76	33.48	22.874	499.6	0.401	75	22.76	33.48	22.874	499.6	0.401
100	22.37	34.53	23.778	413.2	0.518	100	21.44	34.54	24.044	387.7	0.513	100	21.44	34.54	24.044	387.7	0.513	100	21.44	34.54	24.044	387.7	0.513
125	19.21	34.60	24.682	327.0	0.611	125	19.21	34.60	24.682	327.0	0.603	125	19.21	34.60	24.682	327.0	0.603	125	19.21	34.60	24.682	327.0	0.603
150	17.94	34.60	25.000	296.7	0.690	150	17.81	34.58	25.017	295.1	0.682	150	17.81	34.58	25.017	295.1	0.682	150	17.81	34.58	25.017	295.1	0.682
175	16.74	34.59	25.280	270.0	0.762	175	15.57	34.60	25.556	243.8	0.750	175	15.57	34.60	25.556	243.8	0.750	175	15.57	34.60	25.556	243.8	0.750
200	15.00	34.57	25.660	234.0	0.827	200	14.05	34.56	25.856	215.3	0.809	200	14.05	34.56	25.856	215.3	0.809	200	14.05	34.56	25.856	215.3	0.809
225	13.86	34.57	25.903	210.6	0.884	225	12.49	34.55	26.165	186.0	0.861	225	12.49	34.55	26.165	186.0	0.861	225	12.49	34.55	26.165	186.0	0.861
250	13.06	34.55	26.052	196.7	0.936	250	12.13	34.55	26.234	179.4	0.908	250	12.13	34.55	26.234	179.4	0.908	250	12.13	34.55	26.234	179.4	0.908
275	11.75	34.55	26.291	174.0	0.984	275	11.76	34.55	26.301	173.0	0.954	275	11.76	34.55	26.301	173.0	0.954	275	11.76	34.55	26.301	173.0	0.954
300	10.58	34.52	26.497	154.4	1.027	300	11.38	34.54	26.368	166.7	0.998	300	11.38	34.54	26.368	166.7	0.998	300	11.38	34.54	26.368	166.7	0.998
350	9.30	34.52	26.714	133.6	1.103	350	9.68	34.55	26.675	137.5	1.077	350	9.68	34.55	26.675	137.5	1.077	350	9.68	34.55	26.675	137.5	1.077
400	8.31	34.54	26.887	117.5	1.169	400	8.88	34.54	26.798	125.9	1.147	400	8.88	34.54	26.798	125.9	1.147	400	8.88	34.54	26.798	125.9	1.147
450	7.62	34.54	26.990	107.7	1.229	450	8.31	34.55	26.894	116.7	1.212	450	8.31	34.55	26.894	116.7	1.212	450	8.31	34.55	26.894	116.7	1.212
500	7.24	34.55	27.052	101.8	1.285	500	7.66	34.56	27.000	106.8	1.272	500	7.66	34.56	27.000	106.8	1.272	500	7.66	34.56	27.000	106.8	1.272
550	7.01	34.55	27.084	98.7	1.340	550	7.26	34.56	27.057	101.3	1.328	550	7.26	34.56	27.057	101.3	1.328	550	7.26	34.56	27.057	101.3	1.328
600	6.55	34.56	27.155	92.0	1.392	600	6.88	34.57	27.118	95.5	1.382	600	6.88	34.57	27.118	95.5	1.382	600	6.88	34.57	27.118	95.5	1.382
650	6.41	34.56	27.173	90.3	1.442	650	6.42	34.57	27.180	89.6	1.433	650	6.42	34.57	27.180	89.6	1.433	650	6.42	34.57	27.180	89.6	1.433
700	6.14	34.57	27.217	86.2	1.491	700	6.06	34.58	27.235	84.4	1.481	700	6.06	34.58	27.235	84.4	1.481	700	6.06	34.58	27.235	84.4	1.481
750	5.76	34.58	27.273	80.8	1.537	750	5.67	34.59	27.292	79.0	1.527	750	5.67	34.59	27.292	79.0	1.527	750	5.67	34.59	27.292	79.0	1.527
800	5.52	34.58	27.302	78.0	1.582	800	5.45	34.59	27.319	76.5	1.571	800	5.45	34.59	27.319	76.5	1.571	800	5.45	34.59	27.319	76.5	1.571
850	5.33	34.59	27.333	75.1	1.626	850	5.27	34.59	27.340	74.4	1.613	850	5.27	34.59	27.340	74.4	1.613	850	5.27	34.59	27.340	74.4	1.613
900	5.05	34.59	27.366	72.0	1.668	900	5.04	34.60	27.375	71.1	1.655	900	5.04	34.60	27.375	71.1	1.655	900	5.04	34.60	27.375	71.1	1.655
950	4.87	34.60	27.395	69.3	1.708	950	4.82	34.60	27.401	68.7	1.695	950	4.82	34.60	27.401	68.7	1.695	950	4.82	34.60	27.401	68.7	1.695
1000	4.76	34.60	27.408	68.1	1.748	1000	4.70	34.61	27.422	66.7	1.734	1000	4.70	34.61	27.422	66.7	1.734	1000	4.70	34.61	27.422	66.7	1.734
1100	4.47	34.60	27.440	65.0	1.825	1100	4.40	34.61	27.455	63.5	1.810	1100	4.40	34.61	27.455	63.5	1.810	1100	4.40	34.61	27.455	63.5	1.810
1200	4.18	34.61	27.471	62.0	1.900	1200	4.11	34.62	27.495	59.8	1.883	1200	4.11	34.62	27.495	59.8	1.883	1200	4.11	34.62	27.495	59.8	1.883
1300	3.93	34.61	27.505	58.6	1.972	1300	3.89	34.62	27.517	57.7	1.953	1300	3.89	34.62	27.517	57.7	1.953	1300	3.89	34.62	27.517	57.7	1.953
1400	3.73	34.61	27.526	56.9	2.042	1400	3.51	34.64	27.572	52.5	2.020	1400	3.51	34.64	27.572	52.5	2.020	1400	3.51	34.64	27.572	52.5	2.020
1500	3.59	34.61	27.540	55.6	2.110	1500	3.20	34.66	27.617	48.2	2.082	1500	3.20	34.66	27.617	48.2	2.082	1500	3.20	34.66	27.617	48.2	2.082
1600	3.500	34.613	27.551	54.5	2.178	1600	3.05	34.677	27.644	45.6	2.140	1600	3.05	34.677	27.644	45.6	2.140	1600	3.05	34.677	27.644	45.6	2.140
1700	3.415	34.614	27.560	53.6	2.245	1700	2.974	34.684	27.657	44.4	2.196	1700	2.974	34.684	27.657	44.4	2.196	1700	2.974	34.684	27.657	44.4	2.196
1800	3.359	34.615	27.566	53.0	2.312	1800	2.905	34.690	27.668	43.4	2.252	1800	2.905	34.690	27.668	43.4	2.252	1800	2.905	34.690	27.668	43.4	2.252
1900	3.287	34.618	27.576	52.2	2.378	1900	2.822	34.698	27.682	42.1	2.307	1900	2.822	34.698	27.682	42.1	2.307	1900	2.822	34.698	27.682	42.1	2.307
2000	3.267	34.617	27.577	52.1	2.445	2000	2.764	34.703	27.690	41.4	2.361	2000	2.764	34.703	27.690	41.4	2.361	2000	2.764	34.703	27.690	41.4	2.361
2100	3.207	34.616	27.582	51.6	2.511																		
2200	3.171	34.618	27.587	51.1	2.578																		
2300	3.112	34.617	27.591	50.7	2.645																		
2400	3.097	34.615	27.591	50.7	2.711																		
2500	3.077	34.619	27.596	50.2	2.779																		
2600	3.069	34.618	27.596	50.2	2.846																		
2700	3.061	34.618	27.597	50.2	2.914																		
2800	3.064	34.617	27.596	50.3	2.983																		
2900	3.065	34.617	27.596	50.3	3.052																		
3000	3.064	34.617	27.596	50.3	3.122																		
3100	3.066	34.617	27.596	50.3	3.192																		
3200	3.072	34.616	27.596	50.2	3.264																		
3300	3.080	34.618	27.595	50.3	3.335																		
3400	3.090	34.618	27.594	50.4	3.408																		
3500	3.101	34.618	27.593	50.5	3.481																		
3600	3.112	34.617	27.591	50.7	3.555																		
3700	3.125	34.617	27.590	50.8	3.630																		

RV THOMAS WASHINGTON

INDOPAC LEG VIII

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	LATITUDE	LONGITUDE	MO/DAY/YR		MESSENGER		TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES			
	8 52.8S	129 28.6E	9/ 6/76		0257 0416		GMT	2139M	270	6KT	1	270 2 4			
Z	T	S	O2	P04	SIO3	N02	N03	DT	Z	T	S	O2	SIGT	DT	DD
0	26.78	33.871	4.72	0.17	1.5	0.00	0.0	586.9	0	26.78	33.871	4.72	21.961	586.9	0.000
10	26.25	33.867	4.92	0.17	1.2	0.00	0.0	571.2	10	26.25	33.867	4.92	22.124	571.2	0.058
20	26.00	33.865	4.88	0.15	1.4	0.00	0.0	563.9	20	26.00	33.865	4.88	22.201	563.9	0.115
31	25.15	33.736	4.99	0.19	2.4	0.01	0.0	548.2	30	25.23	33.747	4.99	22.346	550.0	0.171
50	24.43	34.068	3.82	0.54	7.5	0.43	6.1	503.6	50	24.43	34.068	3.82	22.831	503.6	0.276
75	21.30	34.537	2.79	1.05	17.2	0.05	14.3	384.3	75	21.30	34.537	2.79	24.081	384.3	0.388
100	19.44	34.588	2.60	1.15	21.0	0.03	16.5	333.5	100	19.44	34.588	2.60	24.613	333.5	0.478
124	17.74	34.616	2.58	1.30	25.0	0.03	18.1	290.9	125	17.68	34.617	2.58	25.076	289.5	0.557
150	16.32	34.608	2.50	1.50	29.9	0.03	20.0	259.4	150	16.32	34.608	2.50	25.392	259.4	0.627
199	14.21	34.601	2.38	1.69	36.0	0.03	22.8	215.5	200	14.16	34.602	2.38	25.863	214.7	0.748
249	12.12	34.573	2.45	1.77	41.6	0.01	25.4	177.5	250	12.09	34.574	2.45	26.260	176.9	0.849
297	10.78	34.562	2.37	2.01	47.5	0.02	27.3	154.7	300	10.72	34.562	2.37	26.505	153.7	0.935
397	9.06	34.556	2.27	2.23	56.5	0.01	30.6	127.4	400	9.01	34.557	2.27	26.789	126.7	1.082
495	7.68	34.570	2.26	2.37	68.2	0.00	33.0	106.3	500	7.63	34.572	2.26	27.013	105.5	1.206
594	6.80	34.579	2.27	2.48	77.3	0.00	34.3	93.8	600	6.76	34.581	2.27	27.141	93.3	1.315
692	6.26	34.582	2.25	2.52	84.6	0.00	35.0	86.7	700	6.21	34.584	2.25	27.217	86.1	1.414
789	5.71	34.590	2.27	2.55	92.5	0.00	35.6	79.5	800	5.65	34.591	2.26	27.294	78.8	1.506
830A	5.49	34.591	2.24	2.65	95.7	0.02	36.0	76.9	1000	4.69	34.616	2.28	27.427	66.2	1.672
985	4.72	34.615	2.28	2.73	111.3	0.00	36.3	66.5	1200	4.14	34.624	2.35	27.494	59.9	1.821
1027A	4.64	34.614	2.27	2.76	113.0	0.00	36.7	65.7	1500	3.31	34.663	2.66	27.608	49.1	2.018
1225A	4.06	34.626	2.37	2.74	119.3	0.00	36.8	58.9	1750	2.92	34.695	2.85	27.671	43.2	2.163
1422A	3.530	34.648	2.56	2.76	124.7	0.00	37.2	52.1	2000	2.63	34.703	2.91	27.685	41.8	2.301
1621A	3.040	34.684	2.79	2.68	129.7	0.00	36.7	45.0							
1820A	2.890	34.697	2.87	2.68	131.6	0.02	36.7	42.7							
2018A	2.823	34.702	2.91	2.68	131.7	0.02	36.7	41.8							
2120A	2.798	34.703	2.97	2.66	131.8	0.02	36.6	41.5							

RV THOMAS WASHINGTON

INDOPAC LEG VIII

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	LATITUDE		LONGITUDE		MO/DAY/YR		MESSENGER		TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES		
	4 09.1S		130 35.7E		9/ 9/76		1300 1422		GMT	3854M	220	2KT	1			
Z	T	S	O2	P04	SIO3	N02	N03	DT	Z	T	S	O2	SIGT	DT	DD	
1	26.47	34.471	5.00	0.24	3.1	0.09	1.1	534.3	0	26.47	34.471	5.00	22.510	534.3	0.000	
9	26.35	34.466	5.12	0.24	3.0	0.13	1.1	531.1	10	26.34	34.468	5.11	22.547	530.7	0.053	
19	26.13	34.461	5.06	0.24	3.2	0.18	1.1	524.9	20	26.07	34.451	5.05	22.620	523.7	0.106	
30	25.24	34.342	4.84	0.28	3.6	0.51	1.9	507.2	30	25.24	34.342	4.84	22.794	507.2	0.158	
49	23.35	34.409	3.61	0.64	9.7	0.20	8.5	448.6	50	23.28	34.415	3.60	23.429	446.5	0.253	
74	21.90	34.521	3.30	0.89	14.5	0.06	11.5	401.2	75	21.82	34.524	3.29	23.928	398.8	0.360	
98	20.10	34.566	3.11	1.01	18.1	0.04	13.7	351.5	100	20.05	34.568	3.10	24.438	350.2	0.454	
123	19.57	34.563	3.05	1.03	19.5	0.03	14.6	338.5	125	19.46	34.566	3.05	24.590	335.7	0.541	
148	18.07	34.591	2.98	1.18	22.6	0.01	16.2	300.4	150	18.00	34.596	2.97	24.981	298.5	0.621	
198	16.37	34.637	2.70	1.43	29.1	0.01	19.6	258.4	200	16.23	34.636	2.70	25.432	255.5	0.762	
247	12.98	34.607	2.61	1.73	39.8	0.00	24.3	191.0	250	12.84	34.607	2.60	26.139	188.5	0.877	
297	11.18	34.588	2.45	2.00	46.6	0.00	27.2	159.7	300	11.10	34.589	2.45	26.456	158.3	0.967	
397	9.07	34.584	2.35	2.22	58.3	0.00	30.8	125.5	400	9.02	34.586	2.35	26.809	124.8	1.116	
496	7.79	34.592	2.36	2.35	69.3	0.00	32.8	106.2	500	7.75	34.593	2.36	27.011	105.6	1.239	
597	6.89	34.592	2.30	2.50	78.6	0.00	34.1	94.0	600	6.86	34.593	2.30	27.138	93.6	1.348	
696	6.02	34.593	2.28	2.55	88.2	0.00	35.2	83.0	700	5.99	34.594	2.28	27.254	82.6	1.445	
796	5.43	34.597	2.32	2.59	95.8	0.00	35.9	75.7	800	5.41	34.598	2.32	27.329	75.5	1.534	
996	4.79	34.604	2.35	2.67	105.2	0.00	36.8	68.1	1000	4.77	34.605	2.35	27.409	67.9	1.698	
1196	4.09	34.608	2.39	2.72	116.1	0.00	37.7	60.5	1200	4.08	34.609	2.39	27.488	60.4	1.849	
1494	3.57	34.613	2.41	2.78	128.5	0.00	38.2	55.1	1500	3.57	34.614	2.41	27.544	55.1	2.057	
2954A	3.066	34.620	2.49	2.89	137.4	0.00	38.7	50.0								
3249A	3.082	34.619	2.49	2.88	138.6	0.00	38.7	50.3								
3545A	3.108	34.620	2.53	2.89	136.6	0.00	38.7	50.4								
3839A	3.140	34.619	2.47	2.89	137.8	0.00	38.9	50.8								

10						20					
INDOPAC LEG VIII											
LATITUDE	LONGITUDE	MO/DAY/YR	START TIME			LATITUDE	LONGITUDE	MO/DAY/YR	START TIME		
8 32.3S	129 28.6E	09/06/76	0223 GMT			4 09.1S	130 35.7E	09/09/76	1335 GMT		
Z	T	S	SIGMA T	DT	DD	Z	T	S	SIGMA T	DT	DD
0	26.85	33.87	21.938	589.1	0.000	0	26.88	34.43	22.507	534.6	0.000
10	26.41	33.80	22.084	575.1	0.058	10	26.39	34.46	22.526	532.7	0.053
20	26.23	33.54	22.186	565.4	0.115	20	26.25	34.45	22.563	529.2	0.107
30	25.25	33.75	22.345	550.1	0.171	30	25.65	34.40	22.712	515.0	0.159
40	25.03	33.82	22.464	538.7	0.226	40	25.08	34.40	22.886	498.4	0.210
50	24.68	33.90	22.675	515.5	0.274	50	23.93	34.41	23.237	464.8	0.258
75	21.91	34.49	23.877	403.8	0.395	75	22.06	34.48	23.627	408.5	0.368
100	20.43	34.59	24.355	358.1	0.491	100	20.40	34.54	24.325	360.9	0.465
125	18.63	34.61	24.856	312.3	0.575	125	19.70	34.55	24.517	342.7	0.554
150	16.80	34.62	25.289	269.2	0.649	150	18.09	34.57	24.940	302.4	0.635
175	15.57	34.59	25.549	244.5	0.715	175	17.24	34.63	25.192	278.4	0.709
200	14.58	34.61	25.782	222.4	0.774	200	16.03	34.61	25.460	252.9	0.777
225	13.50	34.59	25.993	202.3	0.829	225	14.23	34.61	25.856	215.3	0.837
250	12.35	34.55	26.192	183.4	0.879	250	12.81	34.58	26.125	189.8	0.890
275	11.62	34.56	26.339	169.4	0.924	275	12.06	34.59	26.279	175.1	0.937
300	10.74	34.55	26.492	154.9	0.967	300	11.09	34.59	26.460	158.0	0.980
350	9.72	34.54	26.660	138.9	1.044	350	9.83	34.58	26.673	137.7	1.058
400	8.94	34.54	26.788	126.3	1.114	400	9.07	34.57	26.791	126.6	1.128
450	8.34	34.55	26.890	117.1	1.179	450	8.47	34.58	26.893	116.8	1.193
500	7.68	34.56	26.997	107.0	1.239	500	7.71	34.58	27.008	106.0	1.252
550	7.28	34.57	27.062	100.0	1.295	550	7.29	34.58	27.069	100.2	1.308
600	6.92	34.57	27.112	96.0	1.349	600	6.88	34.60	27.142	93.3	1.361
650	6.57	34.57	27.160	91.5	1.401	650	6.52	34.59	27.182	89.4	1.412
700	6.22	34.58	27.214	86.4	1.450	700	5.96	34.59	27.255	82.5	1.459
750	5.93	34.58	27.251	82.9	1.498	750	5.59	34.60	27.310	77.4	1.504
800	5.65	34.59	27.294	78.0	1.543	800	5.35	34.60	27.339	74.6	1.547
850	5.32	34.59	27.334	75.0	1.587	850	5.18	34.60	27.359	72.7	1.589
900	5.14	34.60	27.364	72.2	1.629	900	5.05	34.60	27.374	71.2	1.630
950	4.98	34.61	27.400	68.6	1.669	950	4.94	34.60	27.385	70.2	1.671
1000	4.68	34.62	27.432	65.7	1.708	1000	4.76	34.61	27.416	67.3	1.710
1100	4.47	34.62	27.456	63.5	1.784	1100	4.32	34.61	27.464	62.7	1.786
1200	4.17	34.63	27.496	59.7	1.857	1200	4.04	34.61	27.494	59.9	1.859
1300	3.84	34.63	27.531	56.4	1.927	1300	3.84	34.61	27.515	57.9	1.929
1400	3.57	34.63	27.574	52.4	1.992	1400	3.68	34.61	27.531	56.4	1.998
1500	3.23	34.67	27.622	47.7	2.054	1500	3.58	34.62	27.549	54.7	2.065
1600	3.075	34.681	27.646	45.5	2.112	1600	3.489	34.619	27.557	53.9	2.132
1700	2.966	34.688	27.661	44.0	2.168	1700	3.404	34.620	27.566	53.1	2.198
1800	2.898	34.693	27.671	43.1	2.223	1800	3.353	34.620	27.571	52.6	2.265
1900	2.837	34.699	27.682	42.1	2.278	1900	3.300	34.620	27.576	52.1	2.331
2000	2.823	34.703	27.686	41.7	2.333	2000	3.238	34.620	27.582	51.6	2.397
2100	2.795	34.704	27.689	41.4	2.387	2100	3.202	34.620	27.585	51.2	2.463
						2200	3.176	34.620	27.588	51.0	2.530
						2300	3.144	34.620	27.591	50.7	2.597
						2400	3.124	34.620	27.593	50.6	2.663
						2500	3.104	34.619	27.594	50.4	2.731
						2600	3.093	34.619	27.595	50.4	2.799
						2700	3.083	34.619	27.597	50.1	2.867
						2800	3.063	34.619	27.597	50.1	2.935
						2900	3.058	34.618	27.597	50.1	3.005
						3000	3.061	34.619	27.598	50.1	3.074
						3100	3.068	34.618	27.596	50.2	3.145
						3200	3.075	34.618	27.596	50.3	3.216
						3300	3.081	34.618	27.595	50.3	3.288
						3400	3.088	34.619	27.595	50.3	3.360
						3500	3.097	34.619	27.594	50.4	3.433
						3600	3.106	34.618	27.593	50.5	3.507
						3700	3.118	34.619	27.592	50.6	3.582
						3800	3.128	34.619	27.591	50.7	3.657
						3860	3.138	34.620	27.591	50.7	3.718

RV THOMAS WASHINGTON

INDOPAC LEG VIII

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LATITUDE 6 06.0S		LONGITUDE 131 03.0E		MO/DAY/YR 9/10/76		MESSENGER 1041 1549		TIME GMT	BOTTOM 7154M	WIND 130	SPEED 12KT	WEATHER 1	DOMINANT WAVES 130 3 5		
Z	T	S	Q2	P04	SI03	N02	N03	DT	Z	T	S	Q2	SI0T	DT	DD
1	25.51	33.970	4.98	0.28	3.0	0.18	0.5	541.9	0	25.51	33.970	4.98	22.431	541.9	0.000
10	25.51	33.991	5.03	0.26	3.2	0.18	0.4	540.4	10	25.51	33.991	5.03	22.447	540.4	0.054
20	25.15	34.190	4.86	0.24	3.1	0.22	0.5	515.5	20	25.15	34.190	4.86	22.706	515.5	0.107
31	24.95	34.203	4.75	0.34	4.4	0.58	1.3	508.8	30	24.96	34.205	4.76	22.773	509.1	0.158
50	24.51	34.440	4.48	0.38	4.3	0.76	1.7	479.0	50	24.51	34.440	4.48	23.088	479.0	0.257
75	22.11	34.531	2.87	0.52	6.8	0.93	3.7	406.1	75	22.11	34.531	2.87	23.852	406.1	0.369
100	19.63	34.568	3.04	0.95	14.6	0.15	12.9	339.6	100	19.63	34.568	3.04	24.549	339.6	0.463
125	18.46	34.637	2.80	1.05	18.3	0.00	14.1	306.3	125	18.46	34.637	2.80	24.900	306.3	0.544
150	17.40	34.627	2.82	1.28	22.8	0.00	16.9	282.3	150	17.40	34.627	2.82	25.152	282.3	0.619
200	14.76	34.613	2.55	1.31	24.8	0.00	17.6	225.8	200	14.76	34.613	2.55	25.745	225.8	0.749
250	11.90	34.587	2.46	1.64	32.8	0.00	21.8	172.5	250	11.90	34.587	2.46	26.307	172.5	0.851
299	10.76	34.591	2.36	1.91	42.9		25.9	152.2	300	10.74	34.592	2.36	26.524	151.9	0.936
399	9.01	34.588	2.34	2.06	50.0		28.1	124.3	400	8.99	34.589	2.34	26.817	124.1	1.081
499	7.69	34.580	2.27	2.31	59.6		30.6	105.7	500	7.68	34.582	2.27	27.012	105.5	1.204
600	6.86	34.588	2.25	2.42	68.2		32.8	93.9	600	6.86	34.588	2.25	27.135	93.9	1.313
698	6.13	34.590	2.29	2.56	78.5		34.0	84.6	700	6.12	34.592	2.29	27.236	84.4	1.411
798	5.48	34.595	2.31	2.65	86.4		34.9	76.5	800	5.47	34.596	2.31	27.320	76.3	1.502
897	5.05	34.599	2.35	2.67	94.4		35.8	71.3	1000	4.74	34.598	2.36	27.408	68.1	1.667
996A	4.78	34.602	2.32	2.74	105.8		37.0V	68.1	1200	4.15	34.609	2.36	27.481	61.2	1.818
997	4.75	34.597	2.36	2.70	101.2		36.4	68.2	1500	3.65	34.614	2.39	27.536	55.9	2.030
1194	4.11	34.607	2.39	2.78	114.		37.2	60.8	1750	3.39	34.613	2.40	27.560	53.4	2.199
1196A	4.16	34.608	2.36	2.83	115.0		37.6	61.2	2000	3.25	34.616	2.41	27.577	51.9	2.366
1396A	3.80	34.612	2.39	2.85	121.3		38.0	57.4	2250	3.16	34.619	2.43	27.587	51.0	2.533
1596A	3.53	34.613	2.39	2.86	126.7		38.4	54.8	2500	3.11	34.619	2.45	27.593	50.6	2.701
1894A	3.30	34.615	2.41	2.86	130.9		38.6	52.5	2750	3.06	34.620	2.43	27.597	50.1	2.871
2192A	3.18	34.618	2.42	2.89	133.1		38.7	51.2	3000	3.07	34.622	2.43	27.598	50.0	3.044
2489A	3.11	34.618	2.45	2.91	135.2		39.0	50.6	3250	3.08	34.620	2.50	27.595	50.3	3.222
2784A	3.06	34.619	2.43	2.91	137.1		38.9	50.1	3500	3.09	34.621	2.48	27.595	50.3	3.403
2981A	3.07	34.621	2.42	2.93	137.3		39.1	50.0	3750	3.12	34.620	2.46	27.592	50.6	3.589
3177A	3.08	34.618	2.50	2.91	137.0		38.9	50.3	4000	3.14	34.621	2.45	27.591	50.7	3.780
3471A	3.09	34.620	2.48	2.94	137.6		39.3	50.3	4250	3.18	34.622	2.44	27.588	51.0	3.975
3762A	3.12	34.619	2.46	2.95	137.8		39.0	50.6	4500	3.22	34.623	2.43	27.585	51.3	4.176
4054A	3.15	34.620	2.45	2.89	138.1		39.0	50.8	4750	3.26	34.623	2.40	27.581	51.6	4.382
4343A	3.20	34.621	2.44	2.91	139.7		39.1	51.2	5000	3.29	34.622	2.38	27.577	52.0	4.593
4612P	3.24	34.622	2.42	2.92	140.5		39.1	51.4	5250	3.32	34.621	2.36	27.574	52.3	4.809
4863P	3.271	34.621	2.39	2.94	141.8		39.4	51.8	5500	3.36	34.621	2.33	27.570	52.8	5.031
5113P	3.305	34.620	2.38	2.92	142.6		39.2	52.2	5750	3.40	34.621	2.31	27.566	53.0	5.258
5360P	3.340	34.620	2.35	2.94	143.2		39.2	52.5	6000	3.44	34.621	2.30	27.563	53.3	5.490
5606P	3.378	34.619	2.32	2.95	144.8		39.4	52.9	6250	3.47	34.621	2.28	27.559	53.7	5.727
5688P	3.391	34.620	2.31	2.94	145.		39.4	53.0	6500	3.52	34.621	2.29	27.555	54.1	5.970
6357C	3.490	34.620	2.28	2.9	142.2		38.5	53.9	6750	3.56	34.621	2.30	27.551	54.5	6.218
6734C	3.556	34.620	2.30	2.9	141.9		38.7	54.5	7000	3.61	34.620	2.31	27.546	55.0	6.473
7025C	3.610	34.619	2.31	2.9	142.2		38.9	55.1							

RV THOMAS WASHINGTON

INDOPAC LEG VIII

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LATITUDE 8 31.1S		LONGITUDE 131 10.0E		MO/DAY/YR 9/13/76		MESSENGER 1617 1741		TIME GMT	BOTTOM 1455M	WIND 110	SPEED 8KT	WEATHER 1	DOMINANT WAVES 130 3 5		
Z	T	S	Q2	P04	SI03	N02	N03	DT	Z	T	S	Q2	SI0T	DT	DD
0	25.78	33.711	4.86	0.18	1.7	0.00	0.0	568.5	0	25.78	33.711	4.86	22.153	568.5	0.000
7	25.78	33.708	4.85	0.17	1.6	0.00	0.0	568.7	10	25.78	33.710	4.85	22.151	568.7	0.057
15	25.78	33.710	4.86	0.17	1.6	0.00	0.0	568.6	20	25.78	33.712	4.84	22.153	568.5	0.114
24	25.78	33.711	4.82	0.16	1.5	0.00	0.0	568.5	30	25.60	33.709	4.83	22.205	563.5	0.170
39	25.30	33.703	4.86	0.14	2.2	0.00	0.0	555.0	50	25.23	33.705	4.80	22.315	553.0	0.282
59	25.18	33.704	4.75	0.17	2.6	0.08	0.0	551.4	75	22.76	34.242	3.24	23.448	444.7	0.408
78	22.26	34.358	2.95	0.92	14.1	0.05	12.3	422.6	100	20.69	34.677	2.55	24.352	358.4	0.509
97	20.84	34.654	2.54	1.14	18.9	0.03	15.9	363.9	125	19.69	34.728	2.66	24.654	329.6	0.596
116	20.03	34.733	2.68	1.16	19.6	0.03	16.2	337.6	150	18.79	34.681	2.55	24.850	311.0	0.677
132	18.72	34.675	2.54	1.30	23.8	0.03	18.0	309.7	200	16.45	34.671	2.51	25.411	257.6	0.822
187	17.35	34.702	2.56	1.38	27.9	0.03	19.5	275.6	250	13.39	34.598	2.35	26.021	199.6	0.940
221	14.91	34.622	2.42	1.59	34.2	0.02	22.4	228.3	300	11.45	34.582	2.28	26.386	164.9	1.034
288	11.87	34.583	2.30	1.97	45.7	0.02	26.6	172.2	400	8.86	34.562	2.25	26.817	124.1	1.186
354	9.88	34.571	2.21	2.12	54.6	0.02	29.6	139.2	500	7.80	34.599	2.19	27.009	106.2	1.310
421	8.51	34.559	2.27	2.28	59.4	0.02	31.6	119.0	600	6.86	34.537	2.23	27.095	98.3	1.421
490	7.89	34.580	2.18	2.44	69.4	0.00	32.9	108.5	700	6.20	34.565	2.24	27.204	88.0	1.523
564	7.16	34.572	2.23	2.55	71.7	0.00	33.8	99.1	800	5.64	34.591	2.28	27.295	78.7	1.617
565A	7.15	34.569	2.23	2.54	72.1	0.00	33.7	99.2	1000	4.70	34.611	2.30	27.422	66.7	1.783
717A	6.11	34.579	2.24	2.65	85.9	0.04	35.1	85.1	1200	4.22	34.621	2.33	27.483	61.0	1.934
877A	5.26	34.600	2.32	2.79	100.3	0.02	36.1	73.6							
1046A	4.53	34.613	2.29	2.81	112.4	0.00	36.8	64.7							
1230A	4.20	34.620	2.34	2.86	115.8	0.00	37.1	60.7							

P) THESE NANSSEN BOTTLES POSTTRIPPED, CAUSING THE DEPTHS TO BE UNCERTAIN.

C) THESE THREE NANSSEN BOTTLES WERE LOWERED ON THE HYDRO WIRE IN CONJUNCTION WITH THE GRAVITY CORE.

30						40					
INDOPAC LEG VIII											
LATITUDE	LONGITUDE	MO/DAY/YR	START TIME			LATITUDE	LONGITUDE	MO/DAY/YR	START TIME		
6 06.0S	131 03.0E	09/10/76	0921 GMT			8 31.1S	131 10.0E	09/13/76	1522 GMT		
Z	T	S	SIGMA T	DT	DD	Z	T	S	SIGMA T	DT	DD
0	25.75	33.91	22.312	553.3	0.000	0	25.78	33.71	22.152	568.6	0.000
10	25.68	33.97	22.379	546.9	0.055	10	25.78	33.71	22.152	568.6	0.057
20	25.64	34.04	22.444	540.7	0.103	20	25.78	33.71	22.152	568.6	0.114
30	25.54	34.11	22.527	532.7	0.163	30	25.57	33.72	22.224	561.7	0.170
40	25.09	34.17	22.710	515.2	0.216	40	25.24	33.68	22.295	554.9	0.226
50	24.72	34.25	22.882	498.6	0.267	50	25.16	33.69	22.327	551.6	0.262
75	23.67	34.52	23.397	449.5	0.386	75	23.22	34.12	23.225	465.9	0.410
100	20.46	34.56	24.325	361.0	0.488	100	20.88	34.66	24.288	364.5	0.514
125	19.28	34.57	24.641	330.9	0.575	125	19.75	34.70	24.618	333.0	0.602
150	18.35	34.61	24.905	305.1	0.656	150	18.69	34.66	24.859	310.1	0.684
175	17.43	34.61	25.132	284.2	0.731	175	17.57	34.69	25.159	281.6	0.759
200	15.70	34.59	25.520	247.3	0.799	200	15.96	34.62	25.484	250.7	0.827
225	14.35	34.58	25.799	220.7	0.859	225	14.26	34.58	25.827	218.1	0.887
250	13.19	34.59	26.056	196.3	0.913	250	13.13	34.57	26.053	196.6	0.941
275	11.91	34.57	26.292	173.9	0.961	275	11.99	34.55	26.261	176.8	0.989
300	11.37	34.58	26.401	163.6	1.005	300	11.26	34.55	26.398	163.9	1.034
350	10.32	34.58	26.589	145.7	1.086	350	9.92	34.55	26.634	141.4	1.114
400	9.26	34.58	26.749	130.5	1.159	400	8.97	34.54	26.783	127.3	1.185
450	8.44	34.58	26.898	116.4	1.225	450	8.33	34.55	26.891	117.0	1.250
500	7.74	34.58	27.004	106.4	1.284	500	7.65	34.56	26.995	107.2	1.310
550	7.36	34.58	27.058	101.2	1.341	550	7.24	34.55	27.049	102.0	1.367
600	6.98	34.58	27.112	96.1	1.395	600	6.91	34.56	27.106	96.7	1.421
650	6.54	34.59	27.180	89.7	1.446	650	6.43	34.56	27.171	90.5	1.472
700	6.20	34.59	27.225	85.4	1.495	700	6.17	34.57	27.213	86.5	1.521
750	5.96	34.59	27.255	82.5	1.541	750	5.99	34.58	27.244	83.6	1.569
800	5.60	34.59	27.300	78.2	1.587	800	5.60	34.58	27.293	79.0	1.615
850	5.35	34.60	27.339	74.6	1.630	850	5.36	34.59	27.330	75.5	1.658
900	5.09	34.60	27.370	71.7	1.672	900	5.19	34.59	27.350	73.5	1.701
950	4.89	34.60	27.393	69.5	1.712	950	4.97	34.60	27.384	70.3	1.742
1000	4.80	34.61	27.411	67.7	1.752	1000	4.78	34.60	27.405	68.3	1.782
1100	4.50	34.61	27.445	64.6	1.830	1100	4.45	34.61	27.450	64.1	1.860
1200	4.20	34.61	27.477	61.5	1.904	1200	4.25	34.61	27.472	62.0	1.934
1300	4.08	34.61	27.490	60.3	1.977	1300	4.06	34.62	27.500	59.3	2.007
1400	3.85	34.61	27.514	58.0	2.048						
1500	3.67	34.62	27.540	55.6	2.117						
1600	3.550	34.618	27.550	54.6	2.185						
1700	3.467	34.615	27.556	54.0	2.253						
1800	3.370	34.616	27.566	53.1	2.320						
1900	3.310	34.618	27.573	52.4	2.386						
2000	3.272	34.617	27.576	52.1	2.453						
2100	3.237	34.616	27.579	51.9	2.520						
2200	3.202	34.620	27.585	51.2	2.587						
2300	3.168	34.618	27.587	51.1	2.654						
2400	3.139	34.616	27.590	50.8	2.722						
2500	3.114	34.620	27.593	50.5	2.789						
2600	3.093	34.619	27.595	50.4	2.857						
2700	3.082	34.619	27.596	50.3	2.925						
2800	3.070	34.620	27.598	50.1	2.994						
2900	3.070	34.620	27.598	50.1	3.063						
3000	3.068	34.621	27.599	50.0	3.133						
3100	3.070	34.620	27.598	50.1	3.203						
3200	3.076	34.621	27.598	50.1	3.274						
3300	3.082	34.620	27.596	50.2	3.346						
3400	3.092	34.621	27.596	50.2	3.413						
3500	3.099	34.622	27.596	50.2	3.491						
3600	3.108	34.622	27.596	50.3	3.565						
3700	3.119	34.621	27.594	50.4	3.640						
3800	3.130	34.622	27.594	50.5	3.715						
3900	3.143	34.623	27.593	50.5	3.791						
4000	3.154	34.622	27.591	50.7	3.868						
4100	3.166	34.623	27.591	50.7	3.945						
4200	3.178	34.623	27.590	50.8	4.023						
4300	3.191	34.622	27.588	51.0	4.102						
4400	3.204	34.622	27.587	51.1	4.182						
4500	3.216	34.622	27.586	51.2	4.263						
4600	3.230	34.622	27.584	51.3	4.345						
4700	3.243	34.621	27.582	51.5	4.427						
4800	3.257	34.622	27.582	51.6	4.510						
4900	3.270	34.624	27.582	51.6	4.594						
5000	3.285	34.623	27.580	51.8	4.679						
5100	3.298	34.622	27.578	52.0	4.765						
5200	3.312	34.621	27.576	52.2	4.851						
5300	3.327	34.621	27.574	52.3	4.939						
5400	3.342	34.619	27.571	52.6	5.027						
5500	3.356	34.620	27.571	52.6	5.116						
5600	3.371	34.620	27.569	52.8	5.206						
5700	3.386	34.619	27.567	53.0	5.297						
5800	3.401	34.618	27.565	53.2	5.389						
5900	3.418	34.617	27.562	53.4	5.481						

RV THOMAS WASHINGTON										INDOPAC LEG VIII						
LATITUDE 6 02.5S		LONGITUDE 133 38.7E		MO/DAY/YR 9/18/76		MESSENGER 0410 0558		TIME GMT	BOTTOM 3537M	WIND 160	SPEED 10KT	WEATHER 1	DOMINANT WAVES 160 3 6			
Z	T	S	02	P04	SI03	N02	N03	DT	Z	T	S	02	SIGT	DT	DD	
0	26.28	33.938	4.85	0.35E	2.4	0.00	0.1	567.0	0	26.28	33.938	4.85	22.168	567.0	0.000	
10	26.08	33.925	5.01	0.29	2.3	0.00	0.1	562.0	10	26.08	33.925	5.01	22.221	562.0	0.056	
20	25.99	33.922	4.93	0.27	2.2	0.00	0.1	559.5	20	25.99	33.922	4.93	22.247	559.5	0.113	
31	25.93	33.947	4.93	0.25	2.1	0.02	0.1	555.9	30	25.93	33.943	4.93	22.279	556.5	0.168	
50	25.81	34.278	4.76	0.27	2.2	0.17	0.5	528.5	50	25.81	34.278	4.76	22.570	528.5	0.277	
76	22.70	34.530	3.19	0.86	12.6	0.11	11.9	422.1	75	22.83	34.522	3.25	23.640	426.3	0.397	
100	21.41	34.663	2.90	1.01	16.3	0.06	14.1	378.1	100	21.41	34.663	2.90	24.146	378.1	0.499	
125	19.19	34.695	2.59	1.24	22.0	0.04	17.5	319.6	125	19.19	34.695	2.59	24.759	319.6	0.587	
150	17.58	34.720	2.50	1.39	26.5	0.02	19.5	279.6	150	17.58	34.720	2.50	25.179	279.6	0.663	
198	15.02	34.676	2.38	1.63	34.6	0.00	23.0	226.6	200	14.90	34.673	2.37	25.760	224.4	0.792	
247	12.36	34.611	2.26	1.90	44.4	0.00	26.8	179.1	250	12.25	34.610	2.26	26.258	177.2	0.895	
295	10.89	34.590	2.29	2.03	49.7	0.00	28.4	154.5	300	10.76	34.590	2.28	26.518	152.4	0.981	
393	8.86	34.587	2.14	2.27	62.2	0.00	32.2	122.1	400	8.75	34.588	2.14	26.855	120.5	1.124	
493	7.65	34.589	2.15	2.43	72.5	0.00	34.0	104.5	500	7.60	34.591	2.15	27.032	103.7	1.244	
560A	7.22	34.595	2.15	2.48	78.5	0.05	34.1	98.2	600	6.95	34.590	2.17	27.123	95.1	1.353	
597	6.97	34.589	2.17	2.51	77.9	0.00	34.9	95.3	700	6.45	34.594	2.24	27.194	88.4	1.454	
658A	6.65	34.591	2.24	2.59	83.3	0.04	34.7	91.0	800	5.88	34.600	2.23	27.273	80.9	1.549	
757A	6.17	34.596	2.23	2.65	90.5	0.02	35.1	84.6	1000	4.89	34.611	2.26	27.401	68.7	1.721	
854A	5.52	34.604	2.23	2.73	99.4	0.00	36.1	76.2	1200	4.29	34.617	2.32	27.472	62.0	1.875	
1051A	4.73	34.611	2.28	2.81	110.1	0.05	36.7	66.9	1500	3.97	34.626	2.35	27.513	58.1	2.093	
1248A	4.19	34.618	2.33	2.85	117.4	0.00	37.3	60.8	1750	3.93	34.630	2.35	27.520	57.4	2.274	
1444A	4.00	34.624	2.35	2.86	121.0	0.02	37.6	58.4	2000	3.93	34.635	2.37	27.524	57.0	2.458	
1640A	3.94	34.627	2.35	2.90	122.5	0.02	37.9	57.6	2250	3.92	34.636	2.39	27.526	56.8	2.647	
1837A	3.93	34.631	2.35	2.88	124.0	0.02	37.4	57.2	2500	3.93	34.638	2.41	27.526	56.8	2.841	
2034A	3.93	34.634	2.38	2.90	124.4	0.02	37.4	57.0	2750	3.95	34.638	2.39	27.525	57.0	3.040	
2231A	3.92	34.635	2.39	2.83	122.9	0.02	37.4	56.8	3000	3.97	34.638	2.35	27.523	57.2	3.245	
2429A	3.93	34.636	2.41	2.84	123.6	0.00	37.4	56.9	3250	4.00	34.641	2.29	27.522	57.2	3.455	
2627A	3.94	34.638	2.40	2.86	124.3	0.02	37.5	56.8	3500	4.03	34.640	2.19	27.518	57.6	3.671	
2825A	3.96	34.637	2.38	2.91	124.4	0.02	37.5	57.1								
3024A	3.97	34.637	2.35	2.92	125.6	0.00	37.5	57.2								
3224A	3.996	34.640	2.31	2.91	126.9	0.00	37.4	57.2								
3424A	4.022	34.639	2.17	3.02	129.7	0.02	37.2	57.5								
3524A	4.027	34.639	2.19	2.98	130.9	0.02	36.9	57.6								

RV THOMAS WASHINGTON										INDOPAC LEG VIII						
LATITUDE 5 20.9S		LONGITUDE 132 10.7E		MO/DAY/YR 9/20/76		MESSENGER 0633		TIME GMT	BOTTOM 781M	WIND 150	SPEED 5KT	WEATHER 1	DOMINANT WAVES 160 2 4			
Z	T	S	02	P04	SI03	N02	N03	DT	Z	T	S	02	SIGT	DT	DD	
0	26.52	34.530	5.05	0.24	3.2	0.07	0.3	531.6	0	26.52	34.530	5.05	22.538	531.6	0.000	
10	26.08	34.531	4.99	0.25	3.4	0.09	0.3	518.3	10	26.08	34.531	4.99	22.677	518.3	0.053	
20	26.10	34.611	5.12	0.23	2.3	0.00	0.2	513.2	20	26.10	34.611	5.12	22.731	513.2	0.104	
30	26.08	34.641	5.03	0.21	3.0	0.00	0.3	510.4	30	26.08	34.641	5.03	22.760	510.4	0.155	
49	22.84	34.508	3.34	0.84	11.9	0.35	10.5	427.5	50	22.75	34.509	3.33	23.655	424.9	0.249	
65	21.64	34.534	3.10	1.00	15.6	0.05	12.6	393.4	75	20.84	34.552	2.99	24.216	371.4	0.349	
74	20.92	34.548	3.00	1.06	16.5	0.02	13.6	373.6	100	19.19	34.631	2.77	24.709	324.4	0.437	
98	19.30	34.628	2.78	1.24	21.5	0.00	16.4	327.2	125	18.21	34.659	2.68	24.978	298.8	0.516	
123	18.25	34.652	2.68	1.36	23.9	0.00	17.9	300.2	150	17.74	34.731	2.67	25.149	282.5	0.590	
149	17.77	34.730	2.67	1.43	25.6	0.00	18.7	283.3	200	15.62	34.695	2.54	25.617	238.0	0.723	
198	15.72	34.697	2.55	1.61	31.8	0.00	21.4	239.9	250	13.22	34.638	2.34	26.086	193.4	0.834	
247	13.35	34.639	2.35	1.88	41.3	0.00	25.0	195.8	300	11.34	34.614	2.25	26.432	160.6	0.926	
297	11.44	34.614	2.25	2.08	50.5	0.00	27.8	162.3	400	9.03	34.589	2.28	26.811	124.6	1.076	
347	9.96	34.592	2.26	2.18	56.0	0.00	29.9	138.9	500	7.59	34.593	2.19	27.035	103.4	1.198	
397	9.08	34.588	2.28	2.35	61.2	0.00	31.2	125.4	600	6.89	34.593	2.19	27.133	94.1	1.306	
447	8.30	34.591	2.19	2.42	67.8	0.00	32.4	113.5	700	6.59	34.592	2.17	27.173	90.3	1.408	
547	7.12	34.592	2.19	2.56	78.6	0.02	34.1	97.0								
649	6.78	34.590	2.19	2.62	83.1	0.02	34.6	92.7								
751	6.40	34.594	2.15	2.68	87.4	0.07	35.0	87.6								

E) ALL PHOSPHATES FOR THIS STATION WERE RUN ON THE AUTOANALYZER.

LATITUDE 6 02.5S			LONGITUDE 133 38.7E		MO/DAY/YR 09/16/76		START TIME 0313 GMT		LATITUDE 5 20.9S			LONGITUDE 132 10.7E		MO/DAY/YR 09/20/76		START TIME 0559 GMT	
Z	T	S	SIGMA T	DT	DD	Z	T	S	SIGMA T	DT	DD	Z	T	S	SIGMA T	DT	DD
0	26.25	33.94	22.179	566.0	0.000	0	26.11	34.55	22.682	517.9	0.000	10	26.12	34.60	22.716	514.6	0.052
10	26.10	33.94	22.226	561.5	0.056	10	26.12	34.60	22.716	514.6	0.052	20	26.11	34.64	22.749	511.4	0.103
20	26.00	33.94	22.257	558.5	0.112	20	26.11	34.64	22.749	511.4	0.103	30	25.28	34.53	22.923	494.8	0.153
30	25.93	34.05	22.362	548.5	0.168	30	25.28	34.53	22.923	494.8	0.153	40	23.44	34.48	23.434	446.0	0.201
40	25.86	34.26	22.541	531.3	0.222	40	23.44	34.48	23.434	446.0	0.201	50	21.86	34.51	23.906	401.0	0.243
50	25.68	34.38	22.687	517.3	0.275	50	21.86	34.51	23.906	401.0	0.243	75	20.01	34.57	24.451	348.9	0.337
75	22.55	34.54	23.735	417.3	0.392	75	20.01	34.57	24.451	348.9	0.337	100	19.07	34.65	24.756	320.0	0.422
100	21.26	34.60	24.185	374.4	0.492	100	19.07	34.65	24.756	320.0	0.422	125	18.11	34.62	24.973	299.2	0.500
125	19.46	34.69	24.686	326.6	0.580	125	18.11	34.62	24.973	299.2	0.500	150	17.66	34.72	25.160	281.5	0.574
150	17.59	34.70	25.162	281.3	0.658	150	17.66	34.72	25.160	281.5	0.574	175	16.35	34.67	25.432	255.6	0.642
175	16.96	34.71	25.320	266.2	0.727	175	16.35	34.67	25.432	255.6	0.642	200	15.10	34.65	25.699	230.2	0.704
200	15.64	34.68	25.602	239.4	0.792	200	15.10	34.65	25.699	230.2	0.704	225	13.64	34.64	26.003	201.3	0.760
225	14.18	34.65	25.882	212.6	0.850	225	13.64	34.64	26.003	201.3	0.760	250	12.77	34.61	26.156	186.6	0.810
250	12.50	34.59	26.194	183.2	0.901	250	12.77	34.61	26.156	186.6	0.810	275	11.93	34.61	26.319	171.3	0.856
275	11.43	34.57	26.382	165.4	0.946	275	11.93	34.61	26.319	171.3	0.856	300	11.23	34.59	26.434	160.4	0.900
300	10.55	34.57	26.541	150.3	0.987	300	11.23	34.59	26.434	160.4	0.900	350	9.69	34.58	26.697	135.5	0.977
350	9.75	34.57	26.679	137.2	1.063	350	9.69	34.58	26.697	135.5	0.977	400	8.90	34.58	26.826	123.2	1.046
400	8.90	34.57	26.818	124.0	1.132	400	8.90	34.58	26.826	123.2	1.046	450	8.13	34.58	26.945	111.9	1.108
450	8.36	34.56	26.895	116.7	1.196	450	8.13	34.58	26.945	111.9	1.108	500	7.62	34.59	27.029	104.0	1.166
500	7.71	34.57	27.000	106.7	1.256	500	7.62	34.59	27.029	104.0	1.166	550	6.95	34.58	27.116	95.7	1.221
550	7.32	34.57	27.056	101.4	1.313	550	6.95	34.58	27.116	95.7	1.221	600	6.85	34.58	27.130	94.4	1.273
600	6.97	34.57	27.106	96.7	1.367	600	6.85	34.58	27.130	94.4	1.273	650	6.69	34.59	27.160	91.6	1.324
650	6.68	34.58	27.153	92.2	1.419	650	6.69	34.59	27.160	91.6	1.324	700	6.55	34.59	27.178	89.8	1.374
700	6.52	34.58	27.175	90.2	1.469												
750	6.17	34.59	27.229	85.0	1.518												
800	5.91	34.59	27.262	81.9	1.565												
850	5.53	34.60	27.317	76.7	1.610												
900	5.28	34.61	27.357	72.6	1.653												
950	5.03	34.61	27.385	70.3	1.694												
1000	4.86	34.61	27.404	68.4	1.735												
1100	4.60	34.61	27.433	65.6	1.813												
1200	4.28	34.62	27.477	61.5	1.888												
1300	4.11	34.62	27.495	59.8	1.961												
1400	4.04	34.62	27.502	59.1	2.033												
1500	3.98	34.62	27.508	58.5	2.105												
1600	3.947	34.623	27.514	58.0	2.177												
1700	3.929	34.627	27.519	57.5	2.250												
1800	3.922	34.631	27.523	57.1	2.323												
1900	3.924	34.631	27.523	57.2	2.396												
2000	3.925	34.632	27.523	57.1	2.471												
2100	3.926	34.633	27.524	57.0	2.546												
2200	3.925	34.633	27.524	57.0	2.622												
2300	3.925	34.636	27.527	56.6	2.698												
2400	3.929	34.635	27.525	56.9	2.776												
2500	3.933	34.636	27.526	56.9	2.854												
2600	3.939	34.637	27.526	56.9	2.933												
2700	3.946	34.636	27.524	57.0	3.013												
2800	3.952	34.635	27.524	57.1	3.094												
2900	3.961	34.637	27.524	57.1	3.175												
3000	3.968	34.638	27.524	57.1	3.258												
3100	3.976	34.638	27.523	57.1	3.341												
3200	3.984	34.638	27.522	57.2	3.425												
3300	3.993	34.639	27.522	57.2	3.511												
3400	4.005	34.639	27.521	57.4	3.597												
3500	4.012	34.639	27.520	57.4	3.684												

RV THOMAS WASHINGTON

INDOPAC LEG VIII

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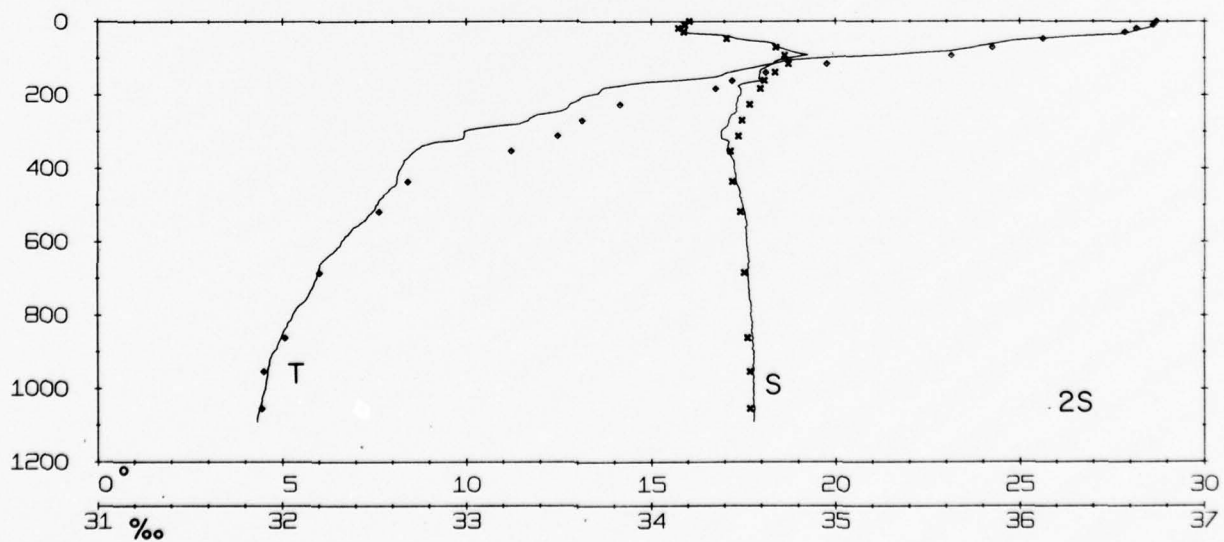
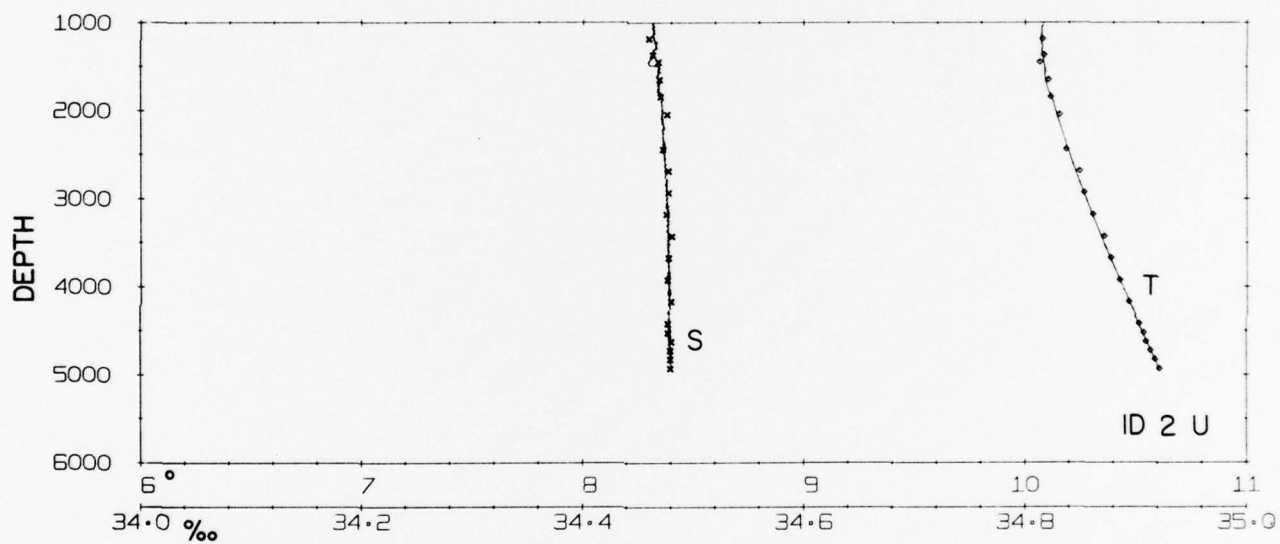
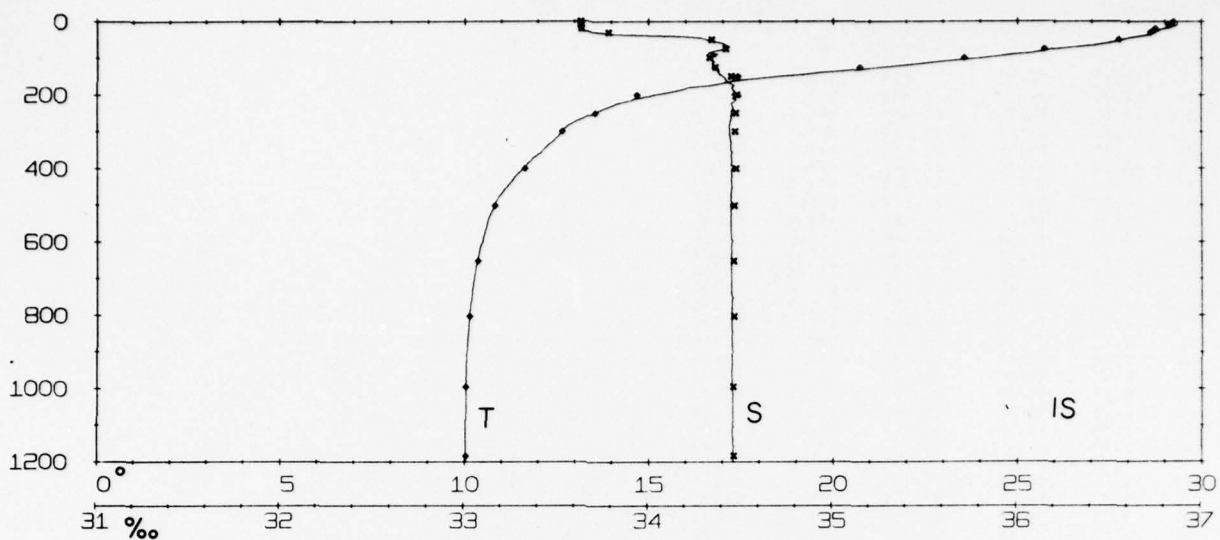
LATITUDE 3 46.9S			LONGITUDE 132 21.9E			MO/DAY/YR 9/21/76			MESSENGER TIME 1044 1221 GMT			BOTTOM 2112M			WIND 150			SPEED 3KT			WEATHER 1			DOMINANT WAVES 0		
Z	T	S	O2	PC4	SIG3	H02	H03	DT	Z	T	S	O2	SIGT	DT	DD											
0E	26.07	34.696	6.02	0.17	2.2	0.00	0.0	506.2	0	26.07	34.696	6.02	22.804	506.2	0.000											
10	26.05	34.693	6.00	0.16	2.1	0.00	0.2	505.8	10	26.05	34.693	6.00	22.808	505.8	0.051											
19	25.89	34.693	5.81	0.19	2.0	0.03	0.2	501.0	20	25.88	34.694	5.74	22.861	500.7	0.101											
30	25.77	34.694	4.99	0.27	2.2	0.20	0.2	497.4	30	25.77	34.694	4.99	22.896	497.4	0.151											
49	23.51	34.652	4.10	0.72	9.8	0.07	8.8	435.6	50	23.46	34.657	4.08	23.560	433.9	0.244											
74	22.78	34.725	3.76	0.84	11.7	0.07	10.3	410.2	75	22.73	34.721	3.74	23.819	409.2	0.350											
97	21.60	34.611	3.25	1.04	15.6	0.03	13.1	386.8	100	21.49	34.611	3.20	24.083	384.0	0.450											
122	20.54	34.649	2.96	1.14	19.0	0.05	15.3	356.6	125	20.32	34.663	2.94	24.438	350.2	0.543											
146	18.67	34.754	2.83	1.28	22.9	0.03	17.4	302.8	150	18.46	34.755	2.83	25.015	295.3	0.625											
194	15.54	34.716	2.89	1.59	32.3	0.03	20.8	234.7	200	15.34	34.717	2.86	25.697	230.4	0.759											
242	14.13	34.693	2.60	1.75	36.0	0.01	23.7	207.2	250	13.76	34.679	2.57	26.008	200.9	0.870											
290	11.85	34.615	2.45	2.02	47.4	0.01	27.4	169.5	300	11.47	34.608	2.41	26.404	163.3	0.965											
385	9.15	34.592	2.19	2.33	61.5	0.01	31.7	126.1	400	8.95	34.594	2.19	26.828	123.0	1.115											
480	8.28	34.593	2.27	2.39	66.8	0.00	32.5	113.1	500	8.09	34.594	2.27	26.961	110.4	1.241											
576	7.41	34.594	2.29	2.56	77.1	0.00	33.6	100.8	600	7.22	34.597	2.27	27.091	98.1	1.354											
671	6.66	34.600	2.23	2.65	84.9	0.00	34.7	90.4	700	6.48	34.604	2.24	27.210	86.8	1.457											
769	5.84	34.604	2.26	2.72	95.9	0.00	35.7	80.0	800	5.73	34.606	2.23	27.296	78.8	1.550											
804A	5.72	34.603	2.23	2.73	97.5	0.00	35.6	78.7	1000	4.88	34.607	2.34	27.398	68.9	1.719											
967	4.92	34.608	2.32	2.80	106.4	0.00	36.7	69.2	1200	4.18	34.616	2.40	27.483	61.0	1.871											
1001A	4.88	34.607	2.34	2.80	107.2	0.00	36.4	68.8	1500	3.89	34.609	2.53	27.508	58.6	2.088											
1197A	4.19	34.615	2.40	2.86	115.7	0.00	36.6	61.0	1750	3.86	34.612	2.51	27.513	58.0	2.269											
1394A	3.95	34.609	2.48	2.88	116.4	0.00	37.4	59.1	2000	3.64	34.611	2.51	27.515	57.9	2.455											
1591A	3.87	34.609	2.55	2.81	118.1	0.00	37.4	58.3																		
1788A	3.856	34.611	2.50	2.85	118.6	0.00	37.4	58.0																		
1984A	3.842	34.610	2.52	2.86	119.0	0.00	37.6	58.0																		
2082A	3.828	34.610	2.45	2.88	120.7	0.00	37.4	57.8																		

E) THE BOTTOM DEPTH RECORDED WAS INFERRED FROM THE PINGER AND THE DEEPEST BOTTLE. THE DEPTH RE-
CORDER INDICATED 1940 METERS WHICH WAS PROBABLY A STRONG SIDE ECHO.

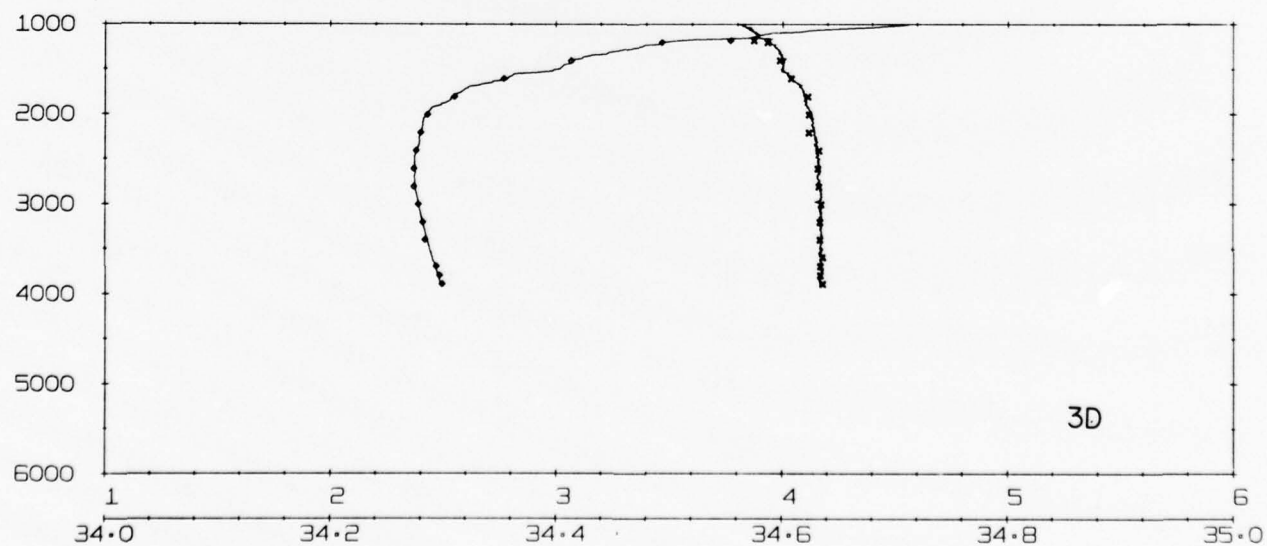
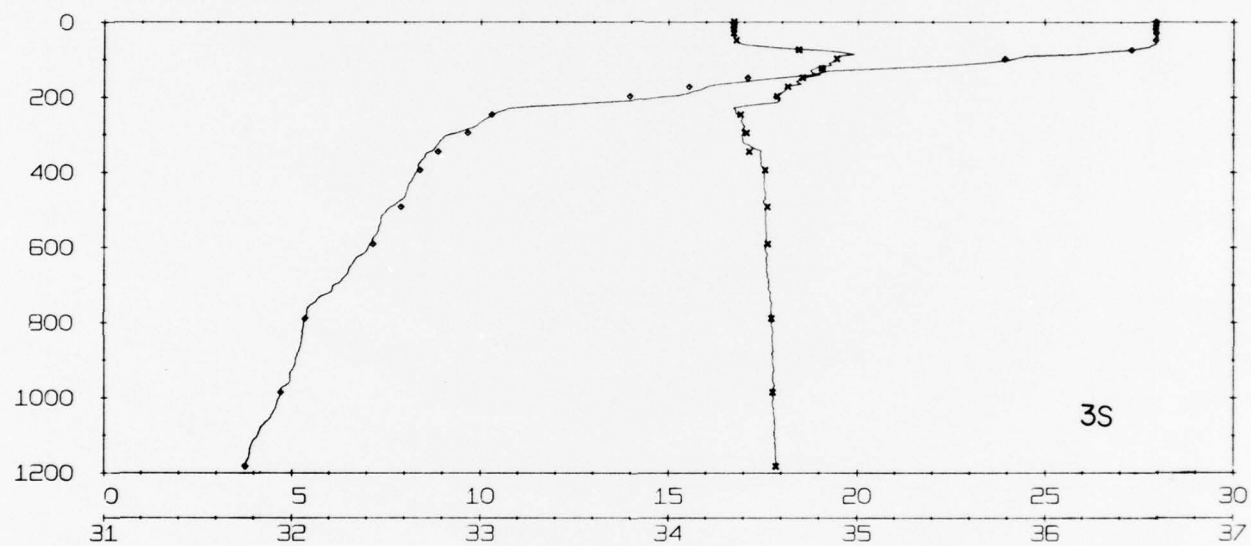
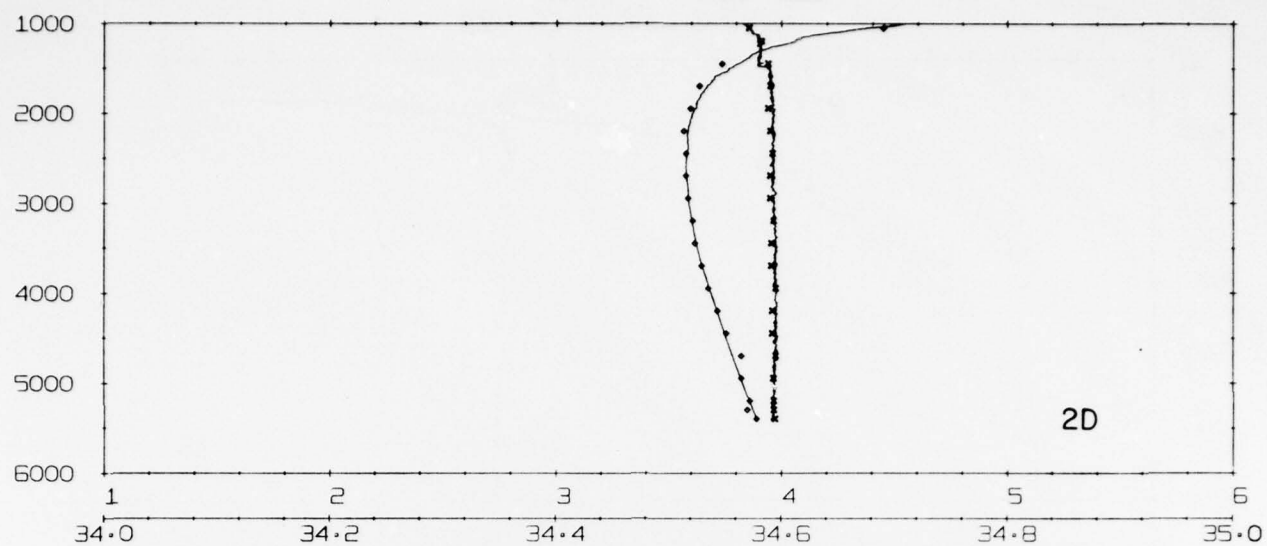
INDOPAC LEG VIII

LATITUDE	70		MO/DAY/YR	START TIME	
3 46.95	LONGITUDE	132 21.9L	09/21/76	1012 GMT	
Z	T	S	SIGMA T	DT	DN
0	26.00	34.70	22.829	503.8	0.000
10	25.91	34.69	22.849	501.8	0.050
20	25.82	34.70	22.885	498.4	0.100
30	25.68	34.70	22.928	494.3	0.150
40	24.79	34.61	23.132	474.6	0.199
50	23.34	34.65	23.591	431.0	0.244
75	22.61	34.74	23.869	404.5	0.349
100	20.88	34.64	24.273	366.0	0.446
125	19.71	34.70	24.629	332.0	0.535
150	17.66	34.73	25.168	280.7	0.612
175	16.69	34.77	25.430	255.8	0.681
200	15.12	34.70	25.733	227.0	0.742
225	14.20	34.69	25.924	208.8	0.798
250	13.67	34.64	25.997	201.9	0.851
275	12.51	34.62	26.215	181.2	0.901
300	11.23	34.59	26.434	160.4	0.946
350	9.82	34.61	26.698	135.3	1.023
400	8.87	34.59	26.838	122.0	1.091
450	8.43	34.59	26.907	115.5	1.155
500	8.21	34.59	26.941	112.3	1.216
550	7.58	34.56	27.027	104.2	1.275
600	7.32	34.60	27.080	99.1	1.330
650	6.84	34.60	27.147	92.8	1.383
700	6.32	34.60	27.217	86.2	1.433
750	5.89	34.60	27.272	80.9	1.480
800	5.72	34.61	27.301	78.1	1.525
850	5.40	34.61	27.341	74.4	1.568
900	5.17	34.61	27.368	71.6	1.610
950	4.95	34.61	27.394	69.4	1.650
1000	4.87	34.62	27.411	67.6	1.690
1100	4.42	34.62	27.461	63.0	1.767
1200	4.18	34.62	27.487	60.5	1.840
1300	4.06	34.61	27.492	60.1	1.912
1400	3.94	34.61	27.504	58.9	1.984
1500	3.88	34.61	27.511	58.3	2.055
1600	3.862	34.613	27.515	57.9	2.127
1700	3.850	34.613	27.516	57.6	2.199
1800	3.845	34.611	27.515	57.9	2.272
1900	3.836	34.600	27.507	58.7	2.347
2000	3.829	34.615	27.520	57.4	2.422

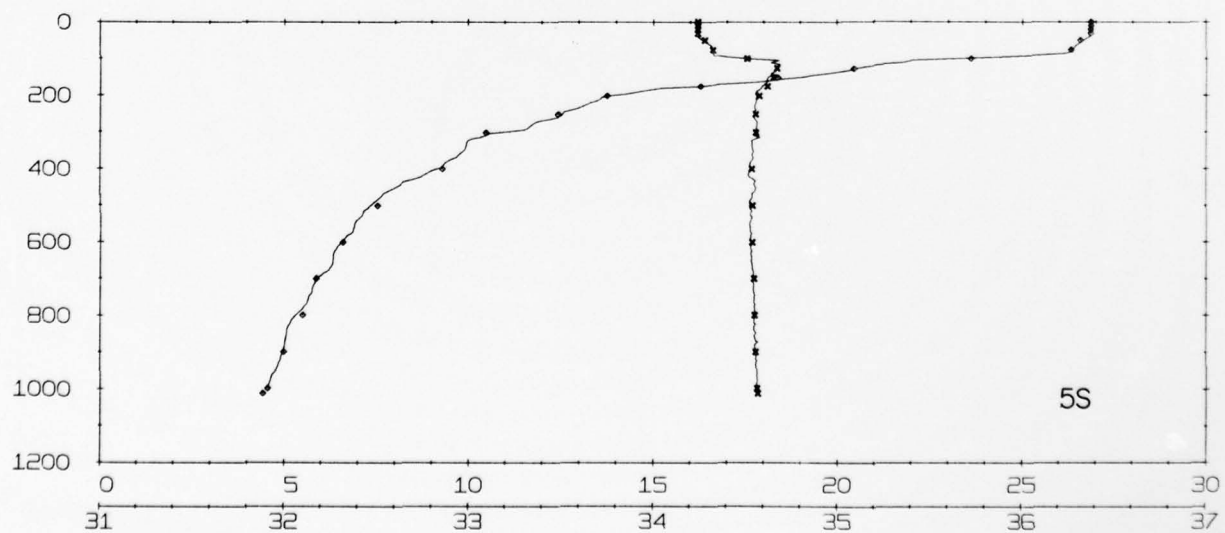
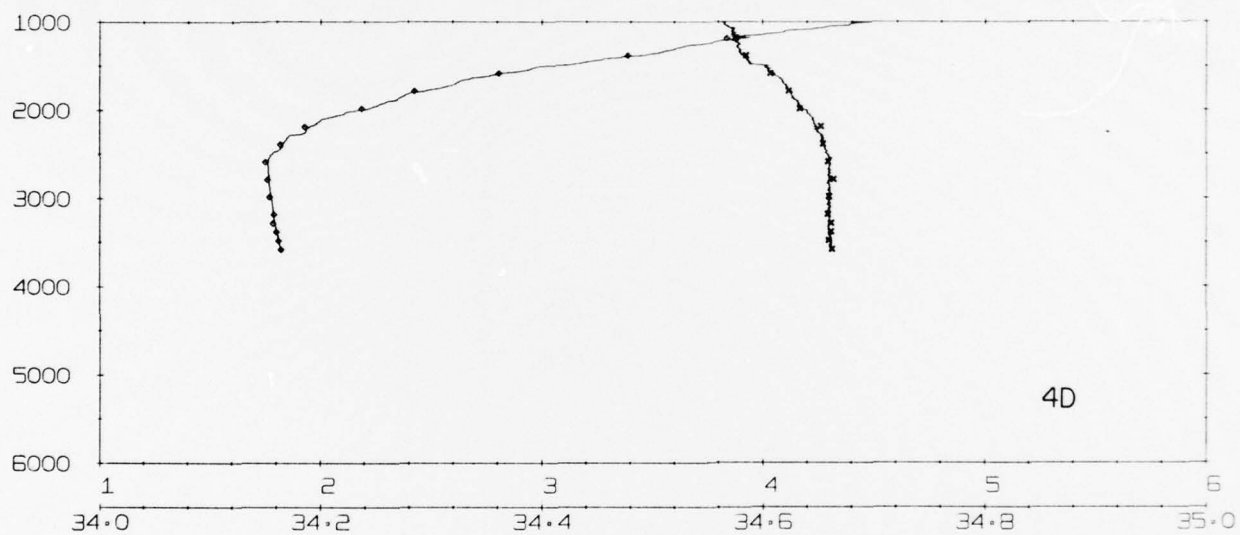
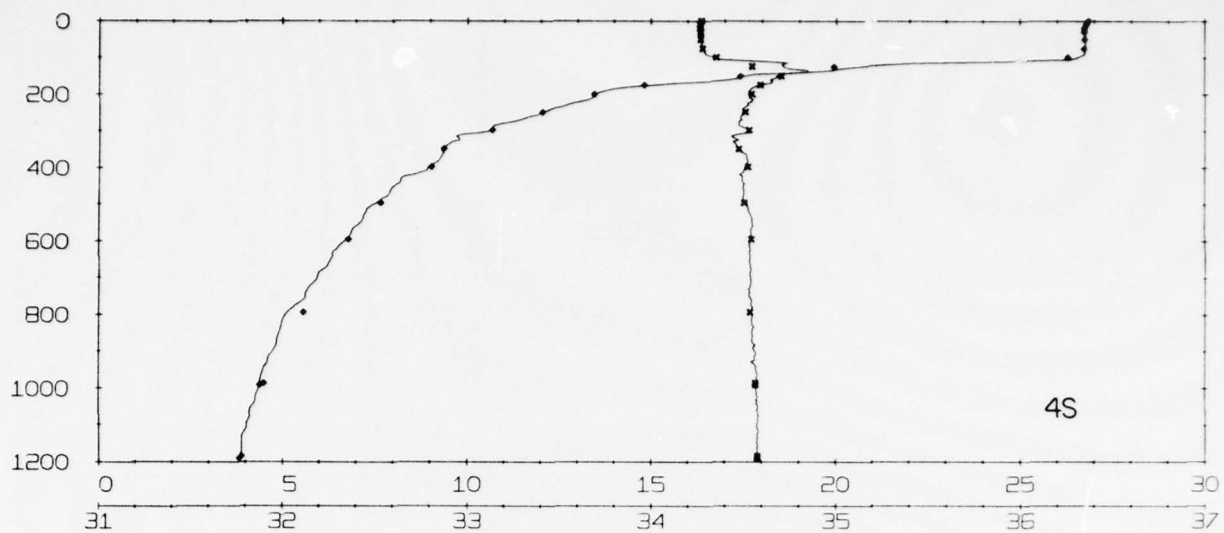
INDOPAC LEG VII



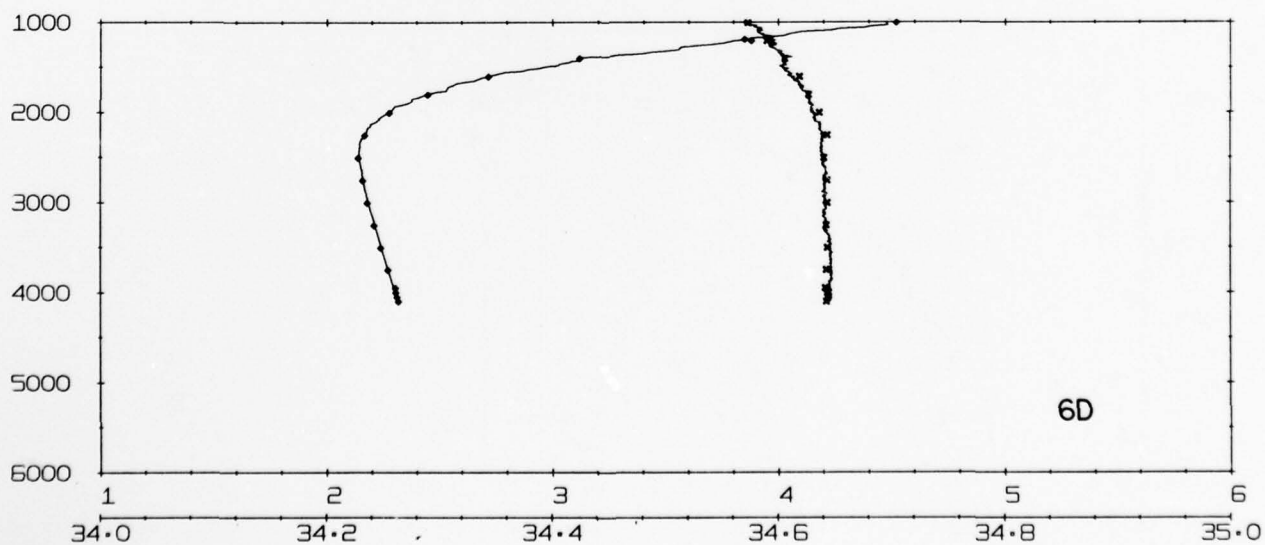
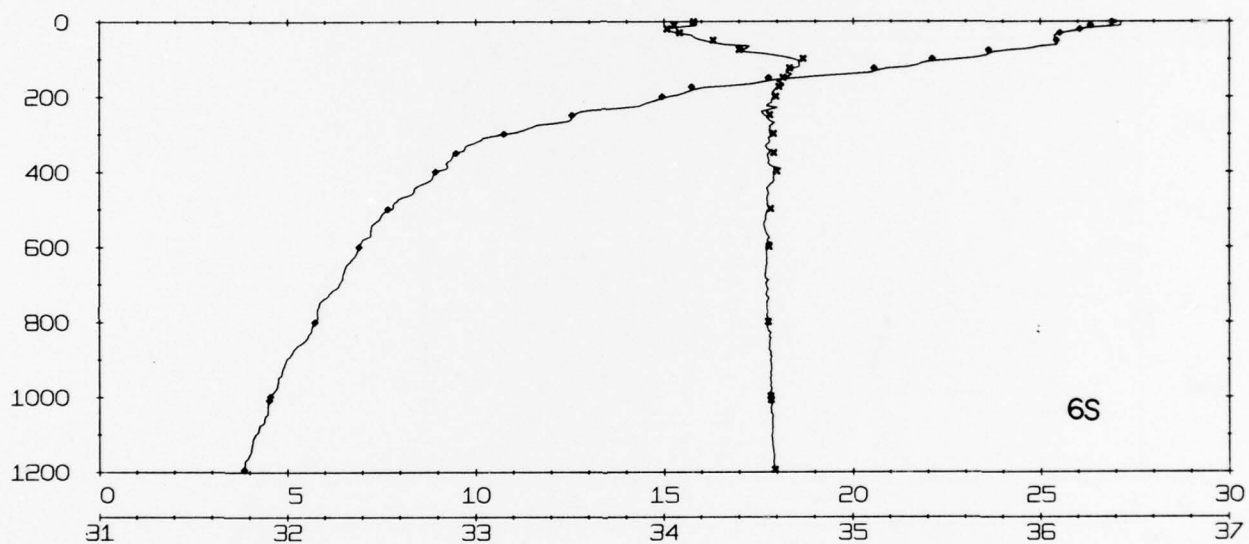
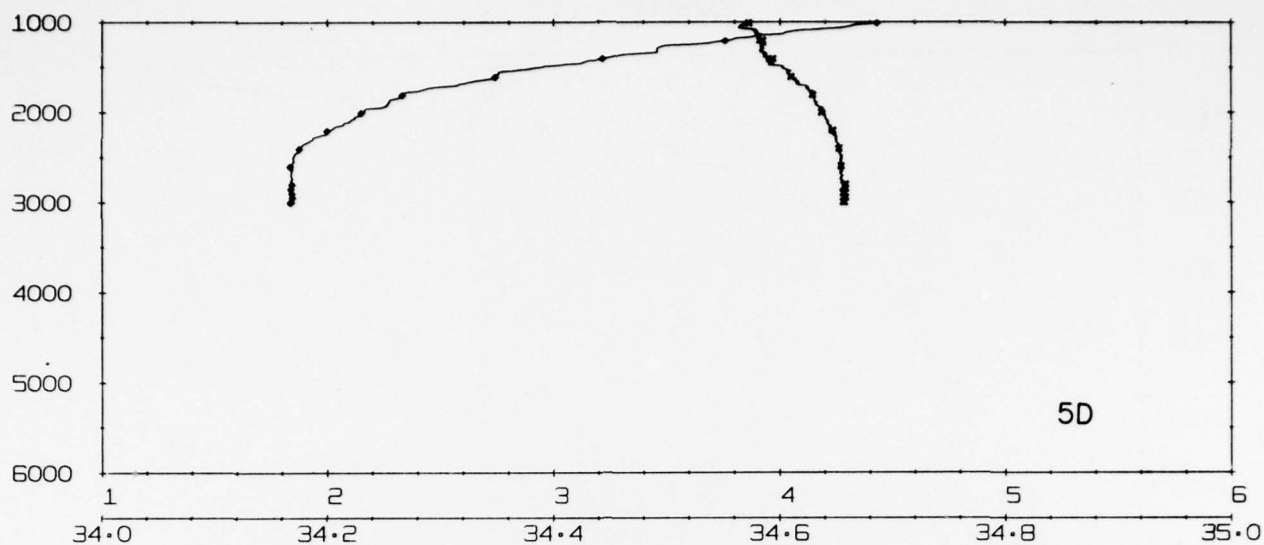
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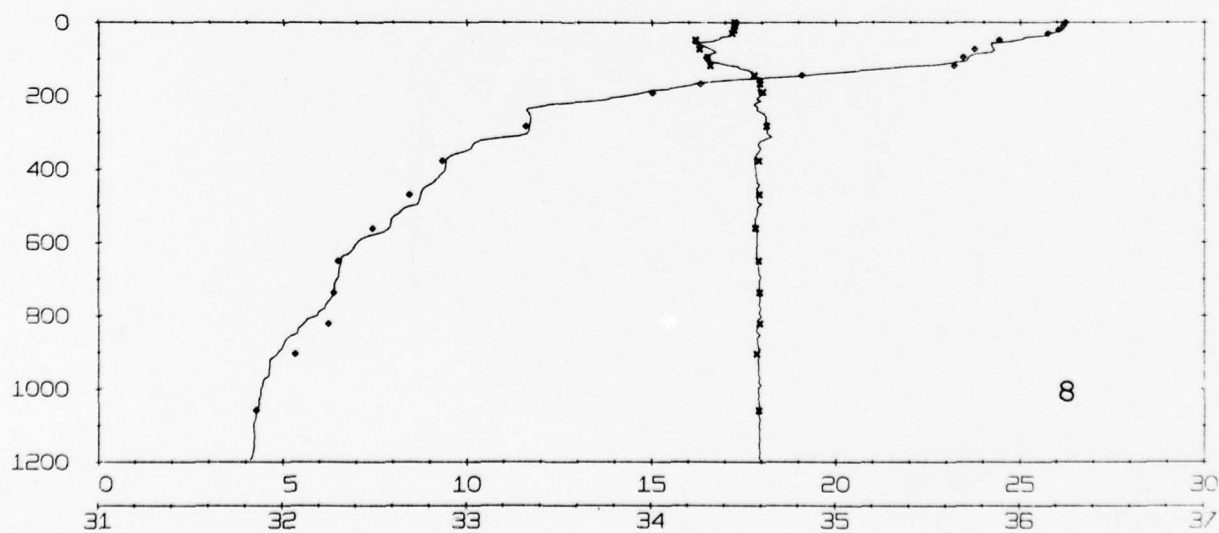
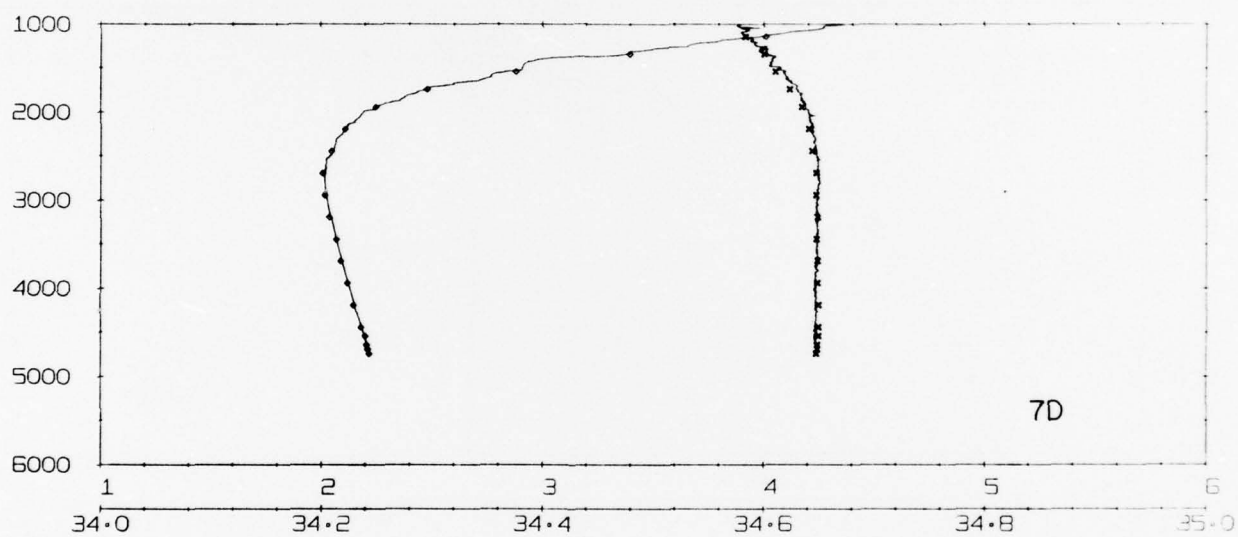
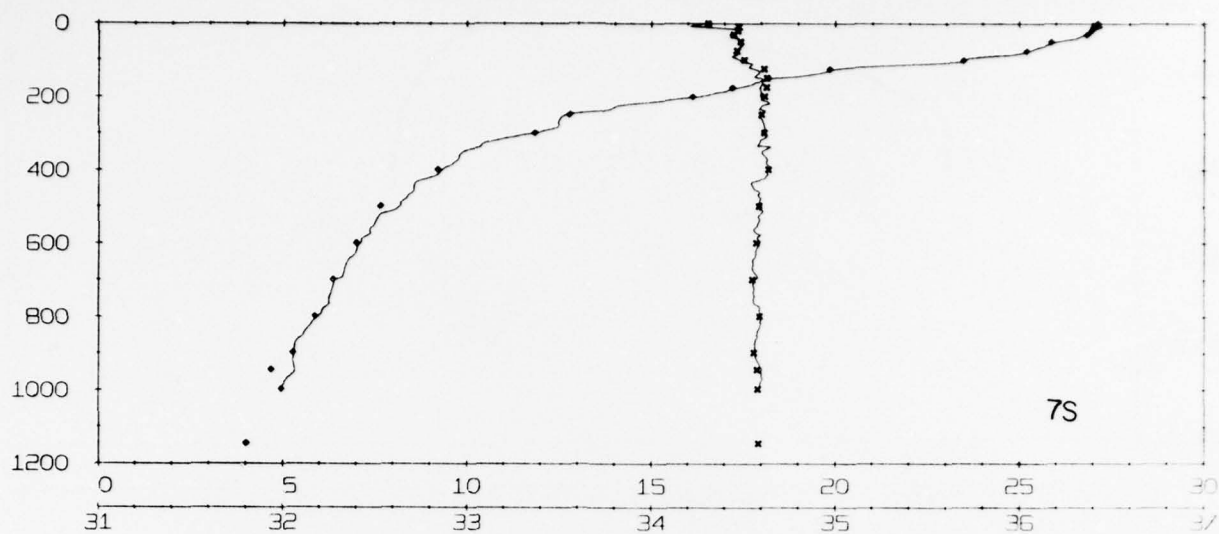
INDOPAC LEG VII



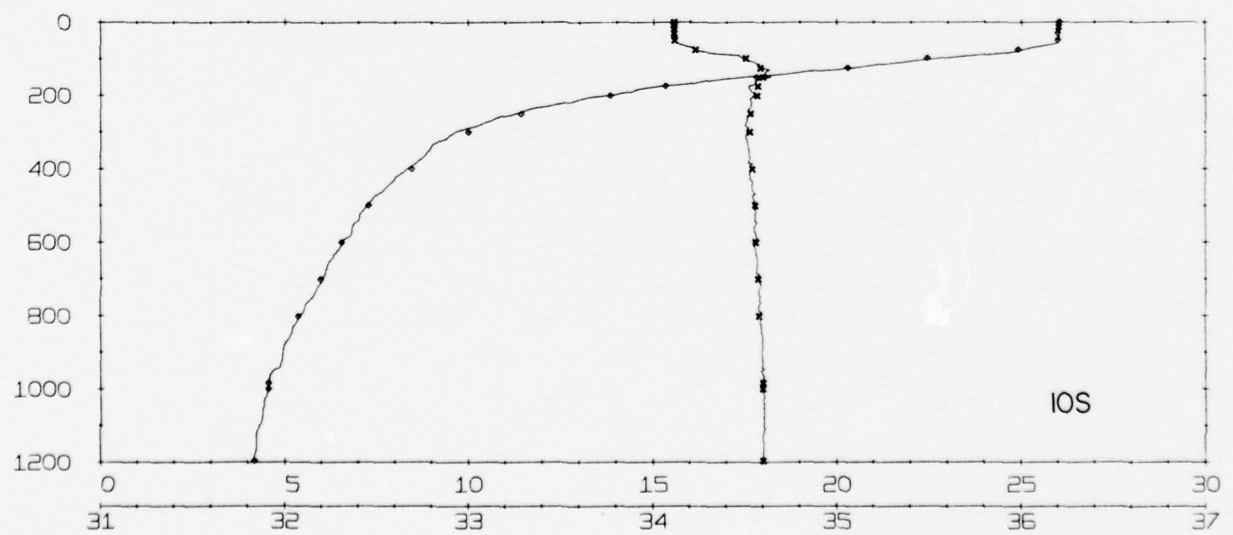
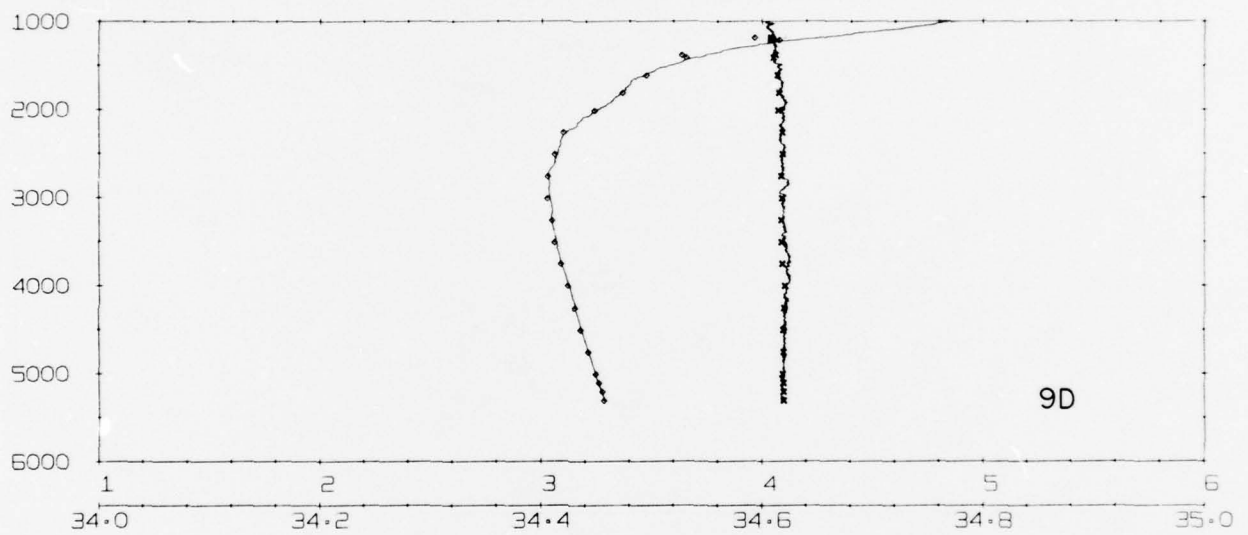
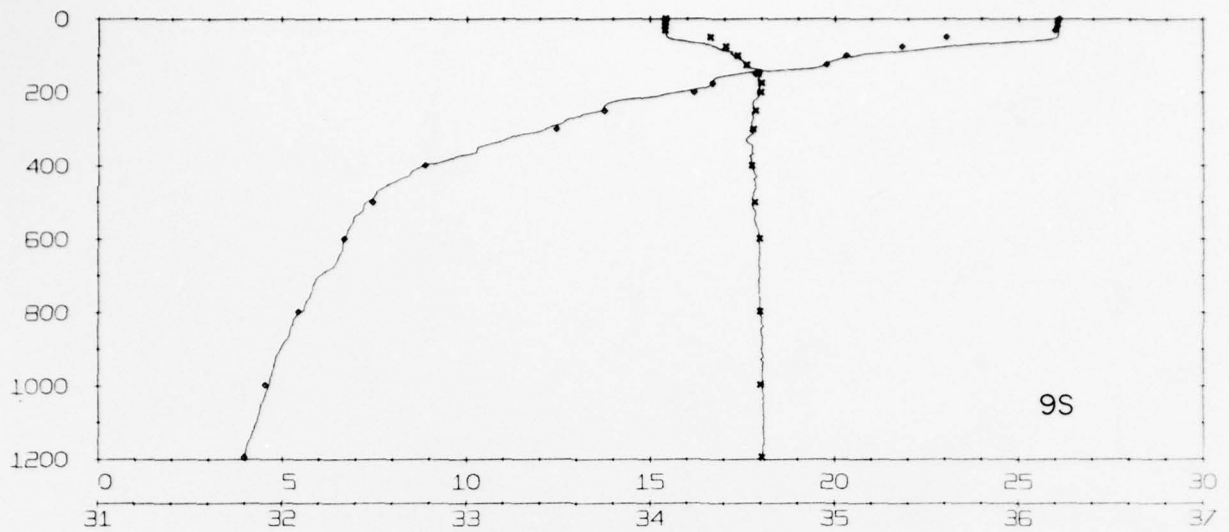
INDOPAC LEG VII



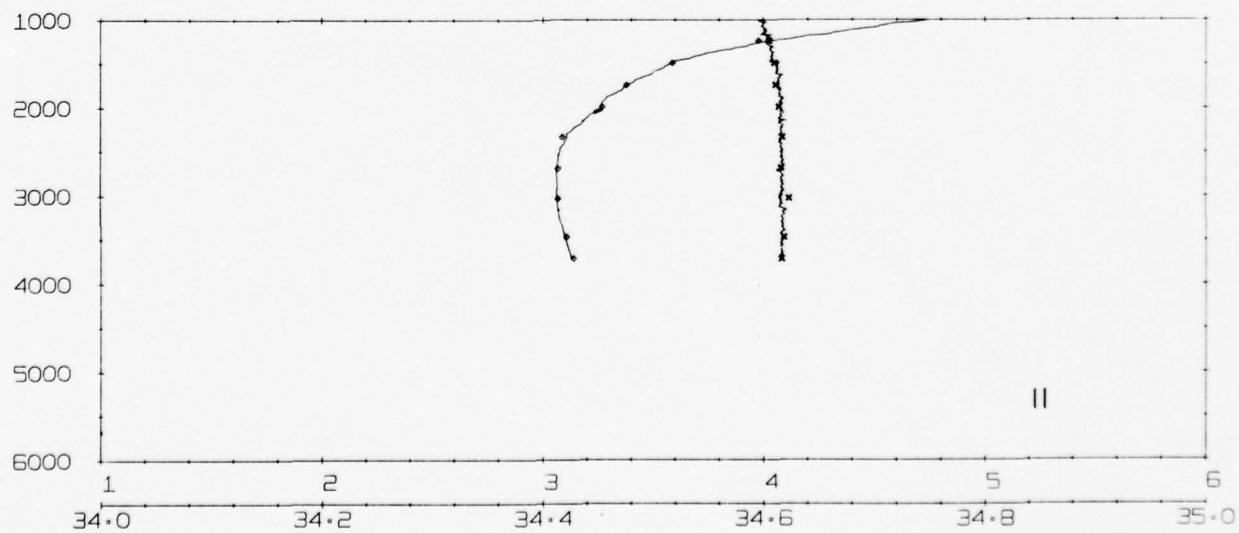
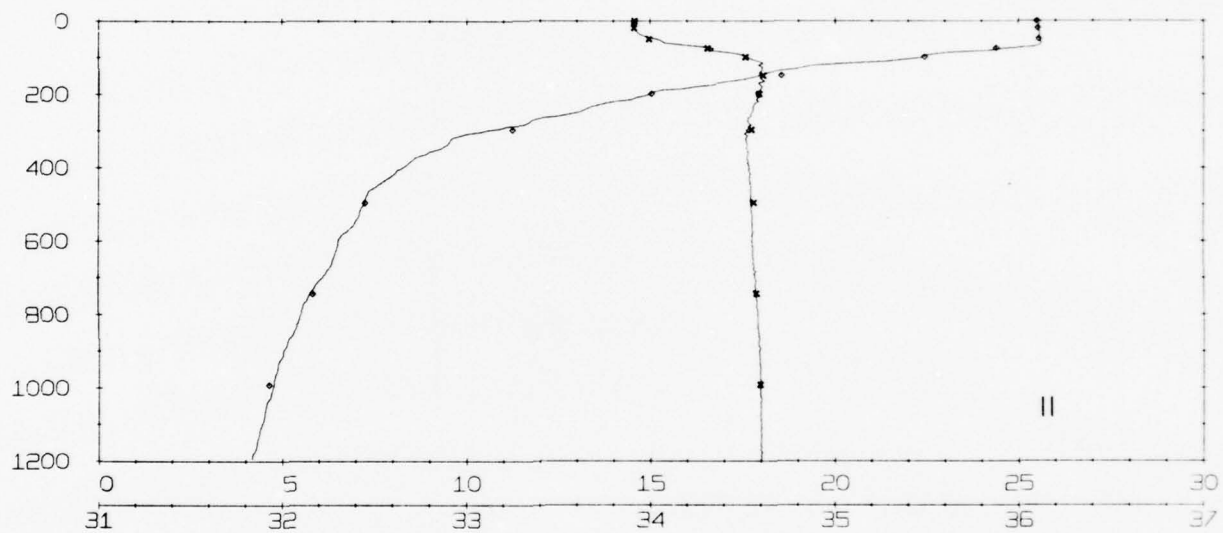
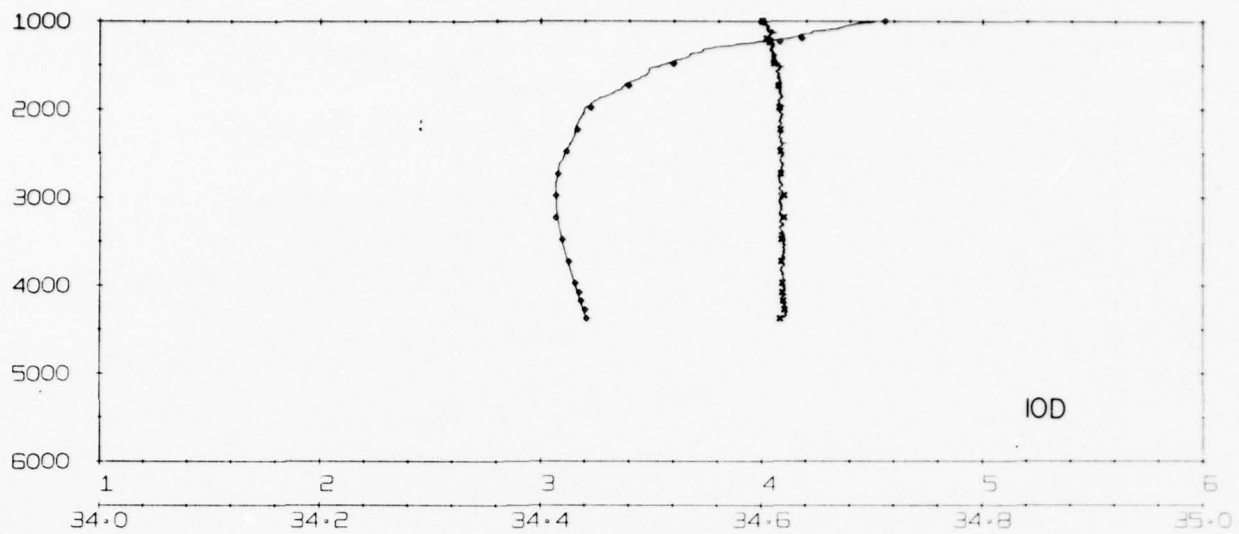
INDOPAC LEG VII



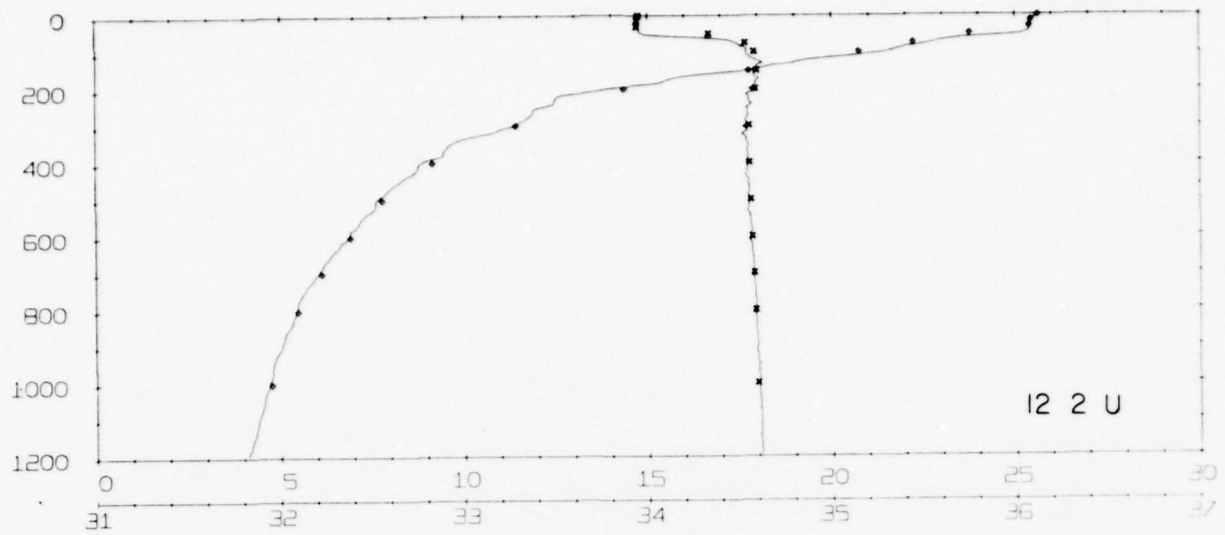
INDOPAC LEG VII



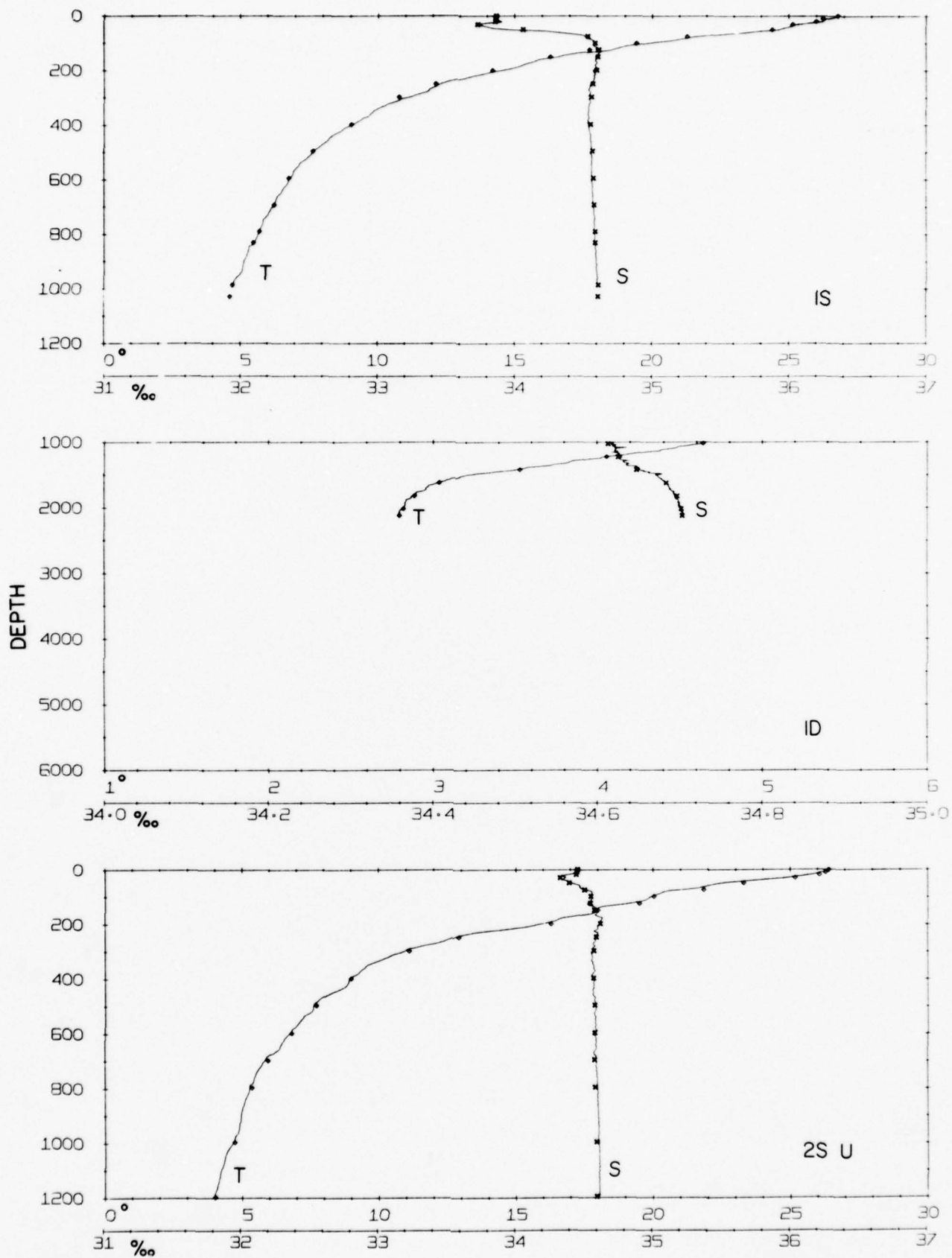
INDOPAC LEG VII



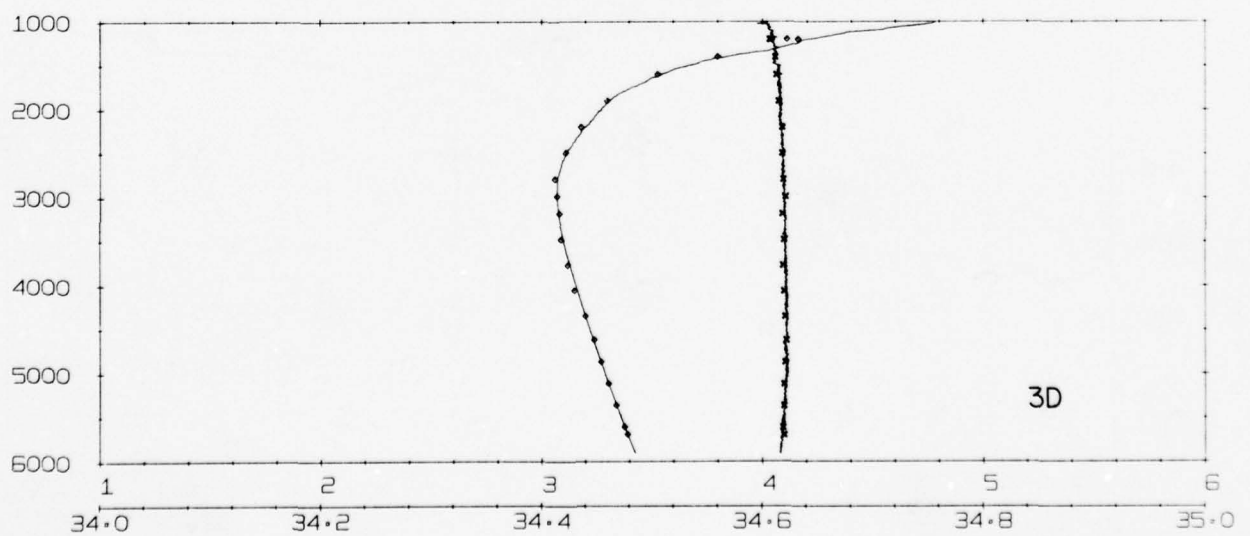
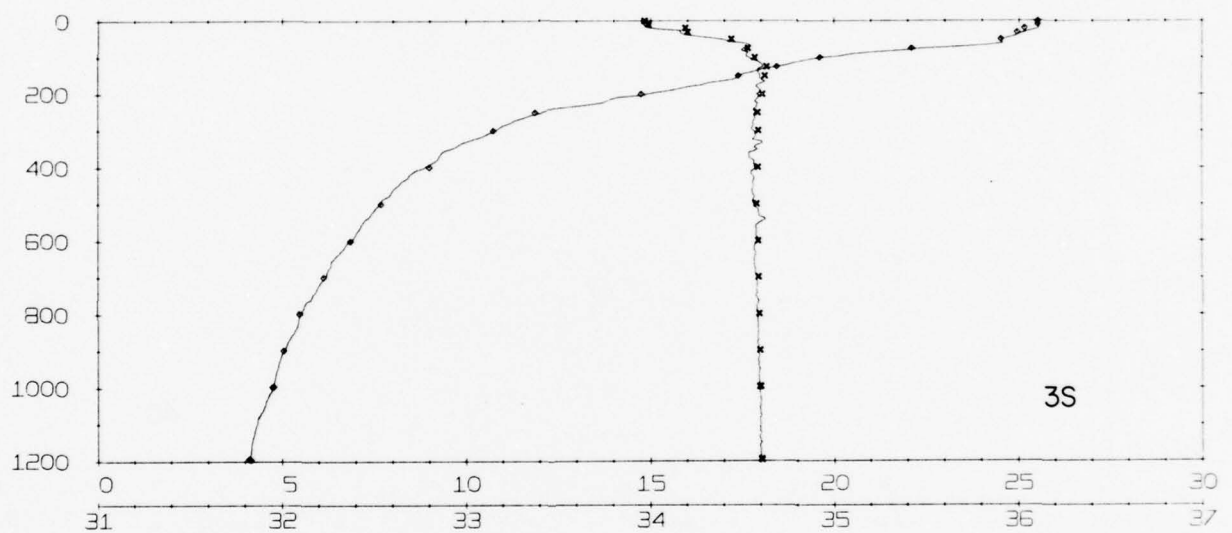
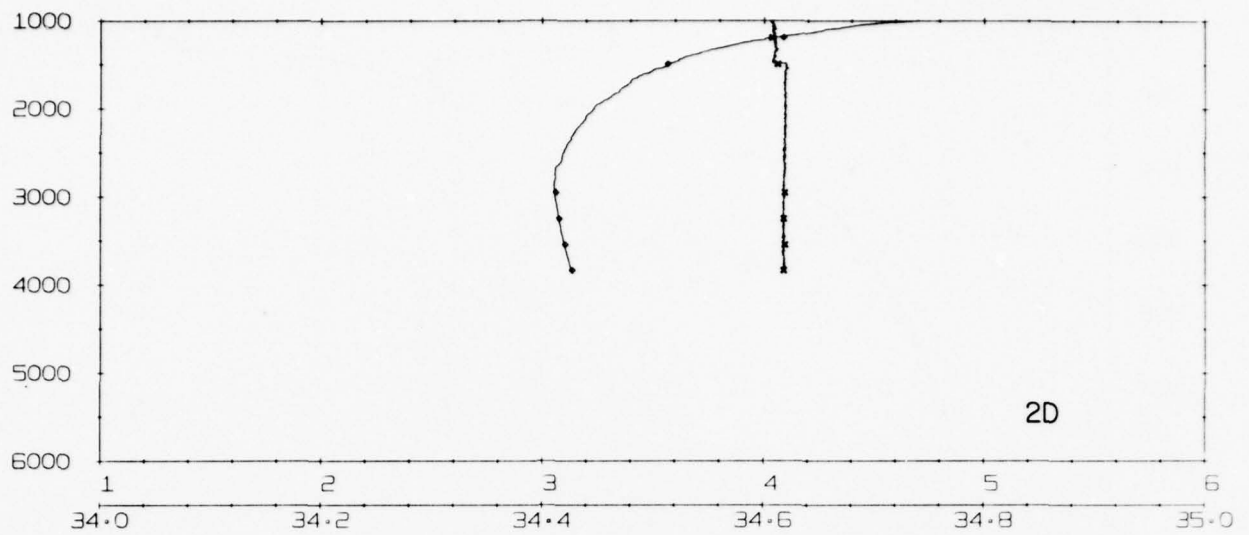
INDOPAC LEG VII



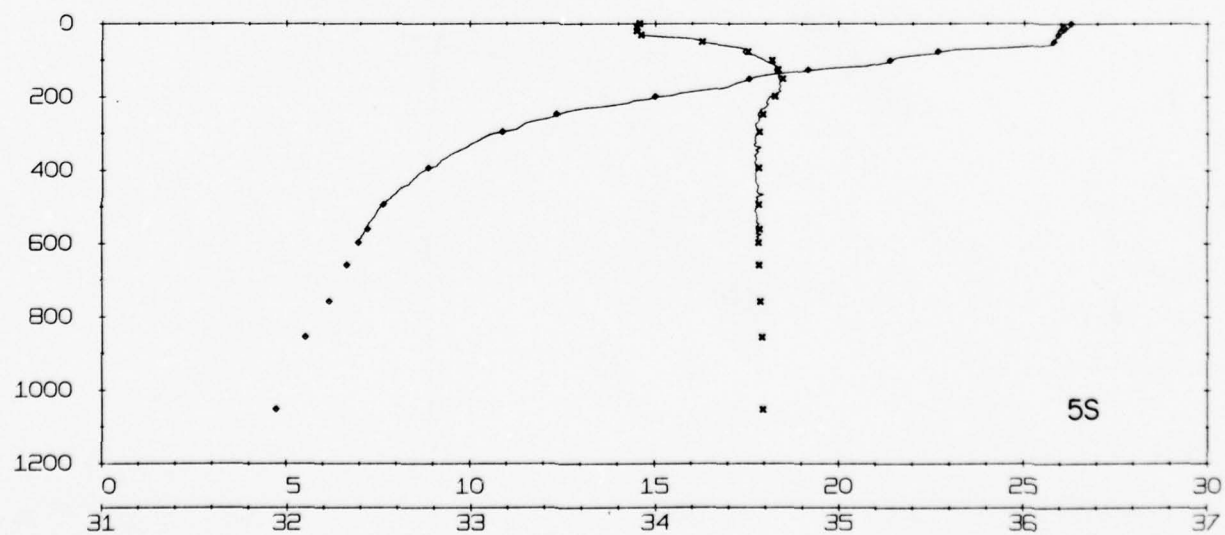
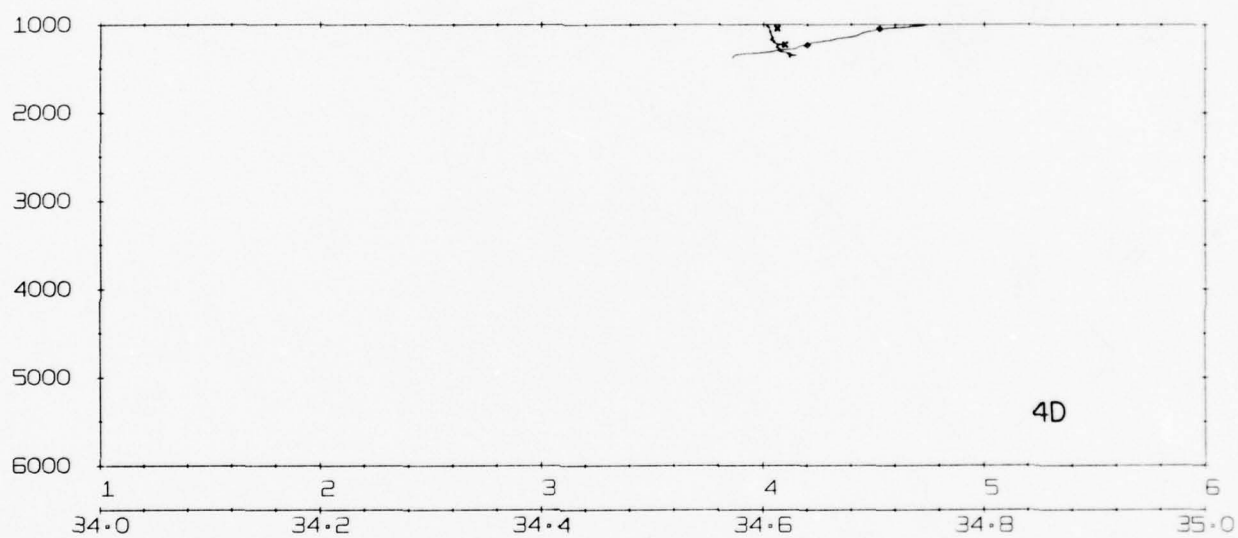
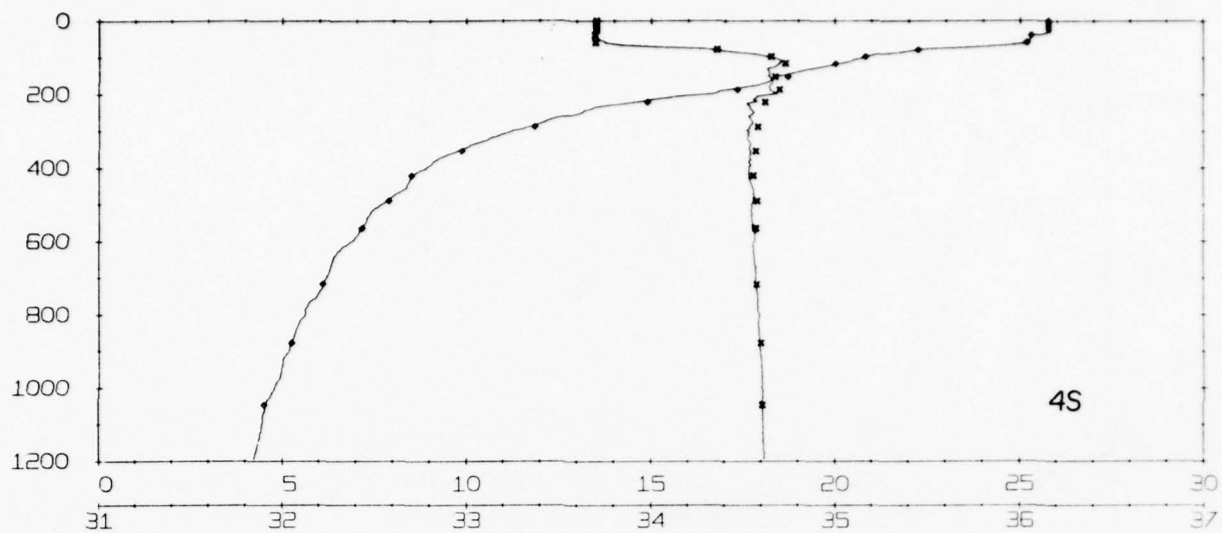
INDOPAC LEG VIII



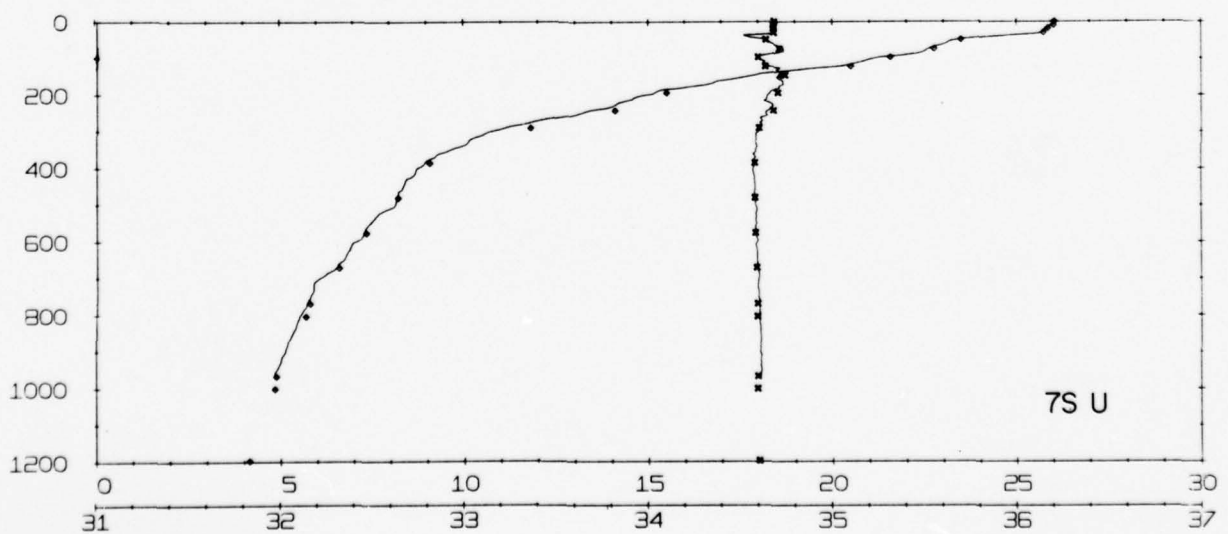
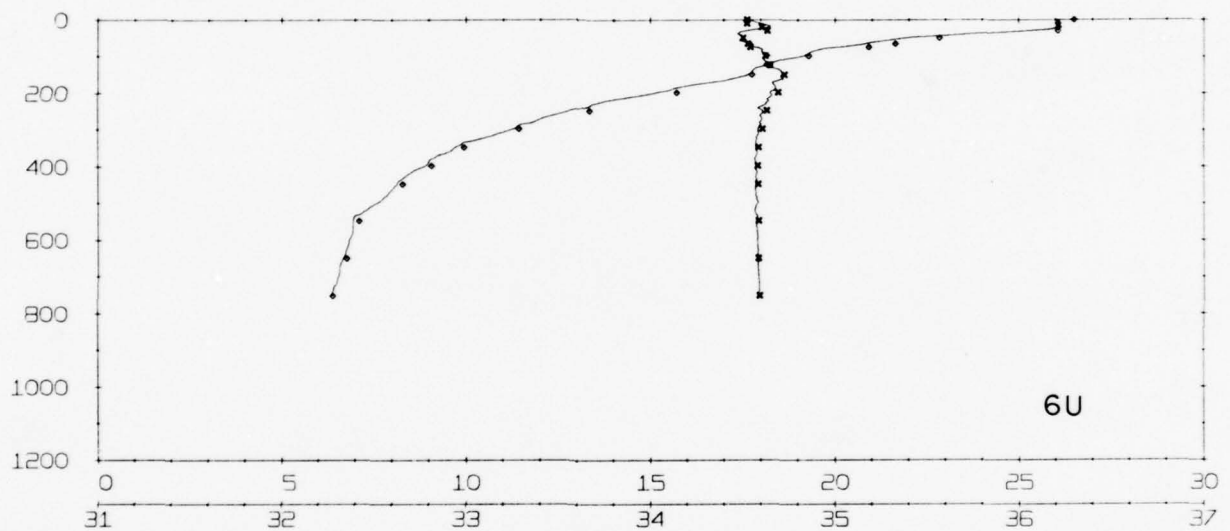
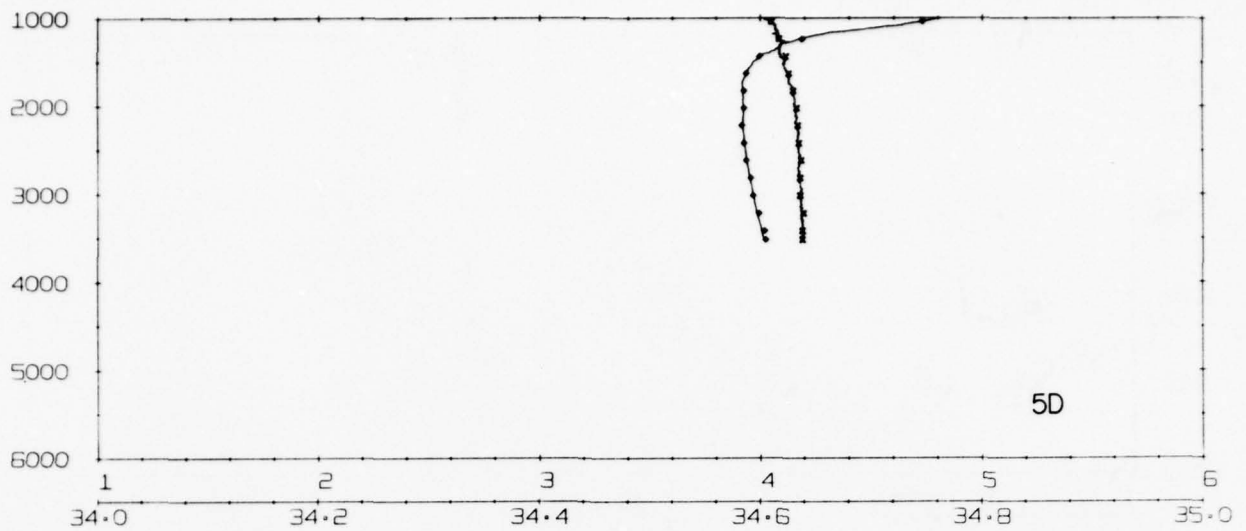
INDOPAC LEG VIII



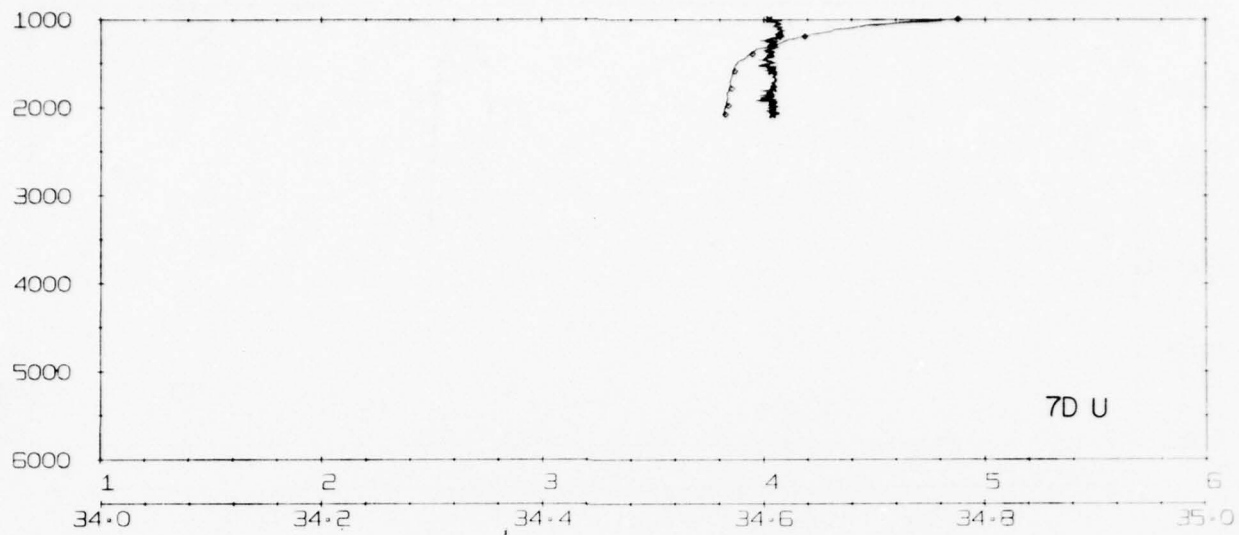
INDOPAC LEG VIII



INDOPAC LEG VIII



INDOPAC LEG VIII



INDOPAC EXPEDITION LEG XV

INDOPAC Expedition Leg XV, 3 to 30 June 1977, was primarily concerned with making deep-sea biological measurements. Studies were also made of the physical and biological structure of the water column. Thirty-six STD lowerings were made with 20 of the lowerings taken over a 24 hour period at one station to study the stability of the density structure of the water column. In addition, 32 zooplankton samples were collected with a 1-meter net. Chlorophyll samples were taken at the same stations to study the effects of spatial variability.

INDOPAC Expedition Leg XV was sponsored by the National Science Foundation, the Office of Naval Research and the University of California, Scripps Institution of Oceanography.

Data are presented as tabulated data and curves of temperature and salinity versus depth from the STD.

Since most bottle casts were not made in conjunction with STD lowerings, all bottle cast data are tabulated first followed by the STD data. No bottle cast values are plotted on the STD curves.

Bottle cast stations are numbered according to the purpose of the cast. "CHL" numbers indicate the cast was for chlorophyll determination. "S" means the cast was made primarily to check the STD: the number following the "S" corresponds to the STD station number.

STD station numbers refer to the data logger sequence number. On stations having single lowerings, only the down recording (or up if the down had problems) is reported even though both down and up were assigned numbers. Stations 34 through 74 U were a continuous time series and all down and up recordings are reported.

One or two check sample bottles were placed on the STD wire on some stations in addition to the "S" hydrographic stations mentioned previously.

PERSONNEL

Ship's Captain: Clark, Geoffrey C. RV THOMAS WASHINGTON

Personnel Participating in the Collection of Data:

Smith, Kenneth L. Dr.	Chief Scientist, Assistant Research Biologist, SIO
Baldwin, Roberta J.	Laboratory Assistant, SIO
Bennett, John C.	Graduate Student, SIO
Burnett, Bryan	Staff Research Associate, SIO
Charters, James S.	Programmer, SIO
Hayward, Thomas L.	Graduate Student, SIO
Holmes, G.	Staff Volunteer, SIO
Hoopes, Edward A.	Staff Research Associate, SIO
Kaye, H. Ross	Electronics Technician, SIO
Laver, Michael B.	Marine Technician, SIO
Michaelson, J.	Graduate Student, SIO
Minor, Brit	Staff Research Associate, SIO
Olson, Robert J.	Graduate Student, SIO
Venrick, Elizabeth L. Dr.	Assistant Research Oceanographer, SIO
Van Boxtel, Ron	Staff Research Associate, SIO
White, G. Allen	Marine Technician, SIO
Williams, Peter M. Dr.	Research Chemist, SIO
Wilson, George D.	Staff Research Associate, SIO
Wilson, Robert C.	Resident Marine Technician, SIO
Yayanos, A. Aristides Dr.	Assistant Research Physiologist, SIO

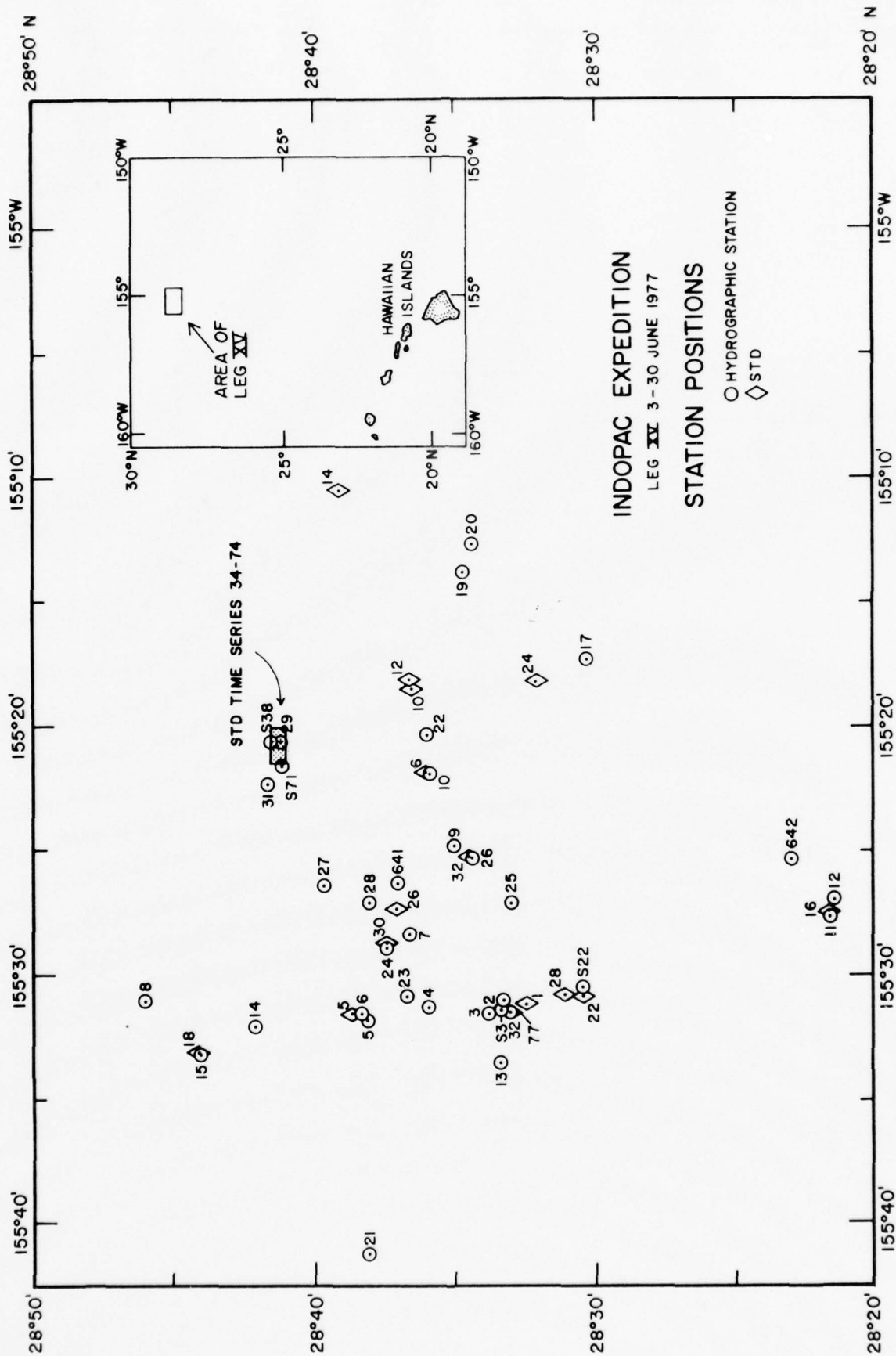


FIGURE 8

RV THOMAS WASHINGTON

INDOPAC LEG XV

CHL 1

LATITUDE		LONGITUDE		MO/DAY/YR		MESSENGER		TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES		
25 25.7N		156 25.7W		6/ 4/77		1146 GMT									
Z	T	S	02	P04	S103	N02	N03	DT	Z	T	S	02	SIGT	DT	DD
0	23.90	35.185						408.0	0	23.90	35.185		23.831	408.0	0.000
10	23.76	35.174						404.9	10	23.76	35.174		23.864	404.9	0.041
30	23.71	35.173						403.5	20	23.74	5.173		23.871	404.2	0.081
50	22.84								30	23.71	35.173		23.878	403.5	0.122
70	22.07	35.349						345.9	50	22.84	35.227		24.172	375.5	0.200
90	21.91	35.374						339.9	75	22.00	35.355		24.506	343.6	0.290
100	21.82	35.377						337.2	100	21.82	35.377		24.574	337.2	0.376
110	21.72	35.376						334.7	125						
120	21.65	35.38						332.4	150						
130		35.384							200						
150		35.372													
203		35.142													

RV THOMAS WASHINGTON

INDOPAC LEG XV

CHL 2

LATITUDE		LONGITUDE		MO/DAY/YR		MESSENGER		TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES		
28 33.3N		155 31.4W		6/ 5/77		2120 GMT									
Z	T	S	02	P04	S103	N02	N03	DT	Z	T	S	02	SIGT	DT	DD
2	22.54								0	22.54					
16									10	22.33					
31	21.58								20	22.00					
47	20.83								30	21.62					
61	19.72								50	20.61					
76	18.60								75	18.67					
91									100	17.58					
96	17.67								125	16.79					
101															
106	17.44														
111															
116	17.09														
121															
126															
131	16.59														
136															
141															

RV THOMAS WASHINGTON

INDOPAC LEG XV

S 3

LATITUDE		LONGITUDE		MO/DAY/YR		MESSENGER		TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES		
28 33.2N		155 31.1W		6/ 5/77		2336 GMT									
Z	T	S	02	P04	S103	N02	N03	DT	Z	T	S	02	SIGT	DT	DD
1	22.56	35.279						364.2	0	22.56	35.279		24.291	364.2	0.000
11	22.58	35.274						365.1	10	22.58	35.273		24.282	365.1	0.036
21	22.55	35.274						364.3	20	22.55	35.274		24.269	364.4	0.073
31	21.41	35.220						337.8	30	21.54	35.226		24.537	340.8	0.108
52	19.96	35.055						312.5	50	20.07	35.073		24.818	314.0	0.174
72	18.57	34.893						290.3	75	18.42	34.872		25.089	288.2	0.250
102	17.33	34.708						274.8	100	17.39	34.719		25.223	275.4	0.321
152	15.66	34.497						253.2	125	16.51	34.599		25.339	264.5	0.390
203	14.23	34.383						231.9	150	15.72	34.504		25.449	254.0	0.455
251	12.82	34.329						208.4	200	14.31	34.388		25.668	233.2	0.580
299	11.84	34.300						192.5	250	12.85	34.330		25.924	208.9	0.693
396	9.78	34.177						166.7	300	11.82	34.300		26.099	192.2	0.797
493	7.80	34.049						146.7	400	9.70	34.172		26.377	165.8	0.984
590	6.04	34.003						127.4	500	7.66	34.043		26.593	145.3	1.147
688	4.79	34.067						108.4	600	5.88	34.006		26.804	125.3	1.291
786	4.40	34.215						93.2	700	4.72	34.086		27.004	106.3	1.414
886	4.036	34.315						82.1	800	4.35	34.232		27.161	91.4	1.520
986	3.699	34.381						73.8							

RV THOMAS WASHINGTON INDOPAC LEG XV CHL 3

LATITUDE		LONGITUDE		MO/DAY/YR	MESSENGER TIME		BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES				
Z	T	S	02	P04	SI03	N02	N03	DT	Z	T	S	02	SIGT	DT	DD
1	22.56								0	22.56					
16	22.58								10	22.57					
32	21.43								20	22.36					
46	20.15								30	21.62					
61	19.19								50	19.85					
75	18.70								75	18.70					
90	18.39								100	18.08					
101	18.03														
104	17.77														
109															
114															
120															
125															
129															
134															
139															
149															
173	15.05														

RV THOMAS WASHINGTON INDOPAC LEG XV CHL 4

LATITUDE		LONGITUDE		MO/DAY/YR	MESSENGER TIME		BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES				
Z	T	S	02	P04	SI03	N02	N03	DT	Z	T	S	02	SIGT	DT	DD
1	22.46								0	22.46					
9	22.47								10	22.47					
21	22.49								20	22.49					
31	20.48								30	20.68					
41	20.33								50	19.88					
61	19.23								75	18.72					
75									100	17.93					
79									125	17.10					
81	18.53								150	16.06					
95															
101															
108															
117															
120															
125															
130															
135															
140	16.57														
142															
160															
178	14.90														
179	14.88														

RV THOMAS WASHINGTON INDOPAC LEG XV CHL 5

LATITUDE		LONGITUDE		MO/DAY/YR	MESSENGER TIME		BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES				
Z	T	S	02	P04	SI03	N02	N03	DT	Z	T	S	02	SIGT	DT	DD
1	22.47								0	22.47					
14	22.47								10	22.47					
21	22.48								20	22.48					
41	20.73								30	21.82					
45	20.45								50	19.98					
61	18.98								75	18.74					
79									100	18.22					
81									125	17.43					
92	18.44								150	16.52					
101															
103															
109															
115															
121															
123															
137															
141															
150	16.52														
156															
161															
180	15.44														

RV THOMAS WASHINGTON

INDOPAC LEG XV

CHL 6

LATITUDE		LONGITUDE		MO/DAY/YR		MESSENGER TIME		BOTTOM		WIND SPEED		WEATHER		DOMINANT WAVES	
28 38.3N	155 31.7W	6/ 6/77	1621	GMT											
Z	T	S	02	P04	S103	N02	N03	DT	Z	T	S	02	SIGT	DT	DD
1	22.26								0	22.25					
16	22.26								10	22.26					
31	20.72								20	21.91					
46	19.46								30	20.84					
61	18.92								50	19.28					
76	18.43								75	18.46					
91									100	17.42					
96									125	16.91					
101	17.38								150	16.16					
106															
111															
116															
121															
126															
131															
136															
141	16.55														
151	16.11														

RV THOMAS WASHINGTON

INDOPAC LEG XV

CHL 7

LATITUDE		LONGITUDE		MO/DAY/YR		MESSENGER TIME		BOTTOM		WIND SPEED		WEATHER		DOMINANT WAVES	
28 35.6N	155 28.4W	6/ 8/77	1031	GMT											
Z	T	S	02	P04	S103	N02	N03	DT	Z	T	S	02	SIGT	DT	DD
0	22.39								0	22.39					
10	22.38								10	22.38					
16	22.38								20	22.39					
20	22.39								30	21.74					
39	20.96								50	20.40					
45	20.69								75	19.03					
59									100	17.97					
79									125	17.00					
87	18.41								150	16.13					
99	18.01														
106															
111															
117															
119															
126	16.96														
132															
139															
159															
176	15.44														
178	15.40														

RV THOMAS WASHINGTON

INDOPAC LEG XV

641

LATITUDE		LONGITUDE		MO/DAY/YR		MESSENGER TIME		BOTTOM		WIND SPEED		WEATHER		DOMINANT WAVES	
28 37.0N	155 26.3W	6/ 7/77	2347	GMT											
Z	T	S	02	P04	S103	N02	N03	DT	Z	T	S	02	SIGT	DT	DD
3881	1.49								4000	1.47					
4073	1.47								4250	1.49					
4268	1.49								4500	1.49					
4465	1.49								4750	1.52					
4663	1.51								5000	1.52					
4863	1.52								5250	1.53					
5063	1.52								5500	1.58					
5261	1.53														
5460	1.57														
5659	1.59														

RV THOMAS WASHINGTON

INDOPAC LEG XV

CHL 8

LATITUDE		LONGITUDE		MO/DAY/YR		MESSENGER TIME		BOTTOM		WIND SPEED		WEATHER		DOMINANT WAVES	
Z	T	S	02	P04	S103	N02	N03	DT	Z	T	S	02	SIGT	DT	DD
1	22.14								0	22.14					
21	22.02								10	22.09					
32	20.54								20	22.03					
41	20.22								30	20.80					
55	19.63								50	19.87					
61	19.24								75	18.50					
80									100	17.18					
94									125	17.06					
100	17.18								150	16.45					
104	17.54														
109															
114															
120															
124															
132	16.90														
140															
147															
160															
167	15.81														
180	15.05														

RV THOMAS WASHINGTON

INDOPAC LEG XV

CHL 9

LATITUDE		LONGITUDE		MO/DAY/YR		MESSENGER TIME		BOTTOM		WIND SPEED		WEATHER		DOMINANT WAVES	
Z	T	S	02	P04	S103	N02	N03	DT	Z	T	S	02	SIGT	DT	DD
1	22.95								0	22.95					
6	22.90								10	22.81					
21	22.38								20	22.43					
41	20.91								30	21.72					
47	20.64								50	20.45					
61	19.72								75	18.87					
81									100	18.08					
83									125	17.12					
100	18.08								150	15.84					
101	18.08														
111															
115															
121															
124															
132	16.69														
141															
150															
153															
160	15.42														
180	14.93														

RV THOMAS WASHINGTON

INDOPAC LEG XV

CHL 10

LATITUDE		LONGITUDE		MO/DAY/YR		MESSENGER TIME		BOTTOM		WIND SPEED		WEATHER		DOMINANT WAVES	
Z	T	S	02	P04	S103	N02	N03	DT	Z	T	S	02	SIGT	DT	DD
0	22.99								0	22.99					
4	22.99								10	22.90					
21	22.53								20	22.57					
41	21.42								30	22.22					
43	21.17								50	20.61					
53	20.43								75	18.85					
61									100	17.86					
80									125	16.88					
88	18.16								150	15.87					
99	17.90								200	13.94					
109															
113															
119															
121															
132	16.56														
139															
160	15.50														
169															
181	14.77														
200	13.94														

642

RV THOMAS WASHINGTON						INDOPAC LEG XV										
LATITUDE		LONGITUDE		MO/DAY/YR		MESSENGER		TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES			
28 22.9N		155 25.3W		6/10/77		1815		GMT								
Z	T	S	02	P04	SI03	N02	N03	DT	Z	T	S	02	SIGT	DT	DD	
4970	1.52								5000	1.52						
5020	1.52								5250	1.54						
5070	1.53								5500	1.52						
5120	1.52															
5170	1.50															
5220	1.52															
5271	1.54															
5321	1.50															
5371	1.49															
5421	1.51															
5471	1.51															
5521	1.53															
5571	1.52															
5621	1.53															
5671	1.54															

CHL 11

RV THOMAS WASHINGTON						INDOPAC LEG XV										
LATITUDE		LONGITUDE		MO/DAY/YR		MESSENGER		TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES			
28 21.6N		155 27.7W		6/13/77		1135		GMT								
Z	T	S	02	P04	SI03	N02	N03	DT	Z	T	S	02	SIGT	DT	DD	
0	24.30								0	24.30						
50	21.11								10	23.56						
99	18.95								20	22.90						
149	17.26								30	22.27						
199	14.51								50	21.11						
224	13.72								75	19.92						
249	13.04								100	18.92						
274	12.46								125	18.10						
298	11.74								150	17.20						
323	11.26								200	14.47						
348	10.70								250	13.02						
373	10.26								300	11.70						

CHL 12

RV THOMAS WASHINGTON						INDOPAC LEG XV										
LATITUDE		LONGITUDE		MO/DAY/YR		MESSENGER		TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES			
28 21.4N		155 27.0W		6/13/77		1410		GMT								
Z	T	S	02	P04	SI03	N02	N03	DT	Z	T	S	02	SIGT	DT	DD	
1	24.24								0	24.24						
16	23.19								10	23.53						
31	22.84								20	23.09						
46	21.90								30	22.86						
61	20.75								50	21.59						
76	19.89								75	19.94						
91	19.32								100	19.04						
100	19.04								125	18.04						
105									150	16.86						
110																
115																
120																
125																
130																
135	17.58															
140																
150																
176	15.48															

RV THOMAS WASHINGTON

INDOPAC LEG XV

CHL 13

LATITUDE		LONGITUDE		MO/DAY/YR		MESSENGER TIME		BOTTOM		WIND		SPEED		WEATHER		DOMINANT WAVES	
Z	T	S	02	P04	S103	N02	N03	DT	Z	T	S	02	SIGT	DT	DD		
0	23.78								0	23.78							
15	22.35								10	22.71							
30	21.97								20	22.23							
45	20.48								30	21.97							
60	20.02								50	20.32							
75	18.64								75	18.64							
90	18.29								100	17.69							
95	18.01								125	16.44							
100									150	16.06							
105																	
110																	
115																	
120																	
125																	
130	16.25																
135																	
140																	
150	16.06																

RV THOMAS WASHINGTON

INDOPAC LEG XV

CHL 14

LATITUDE		LONGITUDE		MO/DAY/YR		MESSENGER TIME		BOTTOM		WIND		SPEED		WEATHER		DOMINANT WAVES	
Z	T	S	02	P04	S103	N02	N03	DT	Z	T	S	02	SIGT	DT	DD		
1	23.38								0	23.38							
10	22.79								10	22.79							
21									20	22.01							
40	20.50								30	21.25							
41									50	20.00							
57									75	18.90							
61									100	17.76							
80	18.71								125	17.07							
87									150	16.00							
99	17.77																
100																	
107	17.68																
111	17.53																
120																	
125	17.14																
140																	
145																	
160	15.49																
179																	
180																	

RV THOMAS WASHINGTON

INDOPAC LEG XV

CHL 15

LATITUDE		LONGITUDE		MO/DAY/YR		MESSENGER TIME		BOTTOM		WIND		SPEED		WEATHER		DOMINANT WAVES	
Z	T	S	02	P04	S103	N02	N03	DT	Z	T	S	02	SIGT	DT	DD		
0	23.07								0	23.07							
3	23.06								10	22.73							
20									20	22.13							
37	20.78								30	21.39							
40									50	20.12							
60									75	19.02							
65									100	18.04							
80	18.83								125	17.03							
82									150	15.92							
99	18.07																
100																	
109	17.78																
112	17.68																
120																	
125	17.03																
139																	
145																	
160																	
170																	
179	14.85																

RV THOMAS WASHINGTON

INDOPAC LEG XV

S 22

LATITUDE 28 30.4N			LONGITUDE 155 30.5W		MO/DAY/YR 6/15/77		MESSENGER 1621 GMT		TIME	BOTTOM M	WIND U	SPEED KT	WEATHER	DOMINANT WAVES Q		
Z	T	S	Q2	P04	SI03	NO2	NO3	DT	Z	T	S	Q2	SI6T	DT	DD	
1	24.50	35.391		0.04	2.5	0.00	0.1	410.2	0	24.50	35.391		23.808	410.2	0.000	
11	23.89	35.375		0.03	2.5	0.00	0.1	394.0	10	23.98	35.383		23.956	396.1	0.040	
21		35.148	U	0.02	3.2	0.00	0.1		20	22.70	35.240		24.222	370.8	0.079	
31	22.53	35.270		0.02	2.9	0.00	0.1	364.0	30	22.53	35.265		24.289	364.4	0.116	
51	20.19	35.016		0.03	3.8	0.00	0.0	321.1	50	20.32	35.029		24.718	323.5	0.185	
70	19.29	34.980		0.03	4.1	0.00	0.1	301.4	75	19.07	34.964		24.995	297.1	0.263	
101	18.00	34.858		0.06	4.1	0.00	0.0	279.3	100	18.04	34.862		25.176	279.9	0.336	
150	16.33	34.583		0.16	5.7	0.04	1.3	261.5	125	17.14	34.720		25.285	269.6	0.405	
201	14.84	34.471		0.41	6.8	0.01	5.2	237.9	150	16.33	34.583		25.370	261.5	0.473	
251	13.07	34.348		0.60	9.8	0.00	8.5	211.7	200	14.87	34.473		25.613	238.4	0.600	
301	11.75	34.301		0.86	13.2	0.00	11.9	190.8	250	13.10	34.351		25.888	212.2	0.716	
401	9.62	34.162		1.21	22.3	0.00	17.4	165.3	300	11.77	34.303		26.110	191.2	0.820	
501	7.60	34.034		1.75	36.8	0.01	24.9	145.1	400	9.64	34.165		26.380	165.5	1.006	
601	5.75	34.013		2.46	60.9	0.00	35.3	123.2	500	7.62	34.036		26.594	145.3	1.170	
700	4.79	34.076		2.89	83.6	0.00	40.6	107.7	600	5.77	34.014		26.824	123.4	1.312	
798	4.31	34.212		3.18	102.4	0.01	44.9	92.5	700	4.79	34.076		26.990	107.7	1.435	
896	3.96	34.299		3.26	114.2	0.01	45.8	82.5	800	4.30	34.215		27.152	92.3	1.542	
992	3.69	34.389		3.25	124.6	0.00	45.8	73.1	1000	3.68	34.393		27.358	72.7	1.723	

RV THOMAS WASHINGTON

INDOPAC LEG XV

CHL 17

LATITUDE 28 30.2N			LONGITUDE 155 17.3W		MO/DAY/YR 6/16/77		MESSENGER TIME 0803 GMT		BOTTOM		WIND SPEED		WEATHER		DOMINANT WAVES	
Z	T	S	02	P04	SI03	NO2	NO3	DT	Z	T	S	02	SI6T	DT	DD	
1	24.43								0	24.43						
10	24.12								10	24.12						
21									20	23.59						
24									30	22.99						
41	22.25								50	21.58						
59									75	19.94						
61									100	18.96						
75									125	18.13						
80	19.65								150	17.28						
92	19.23															
100																
110																
116																
120	18.30															
126																
140																
149	17.31															
160	16.92															
173	16.38															
181	15.76															

RV THOMAS WASHINGTON

INDOPAC LEG XV

CHL 19

LATITUDE		LONGITUDE		MO/DAY/YR		MESSENGER		TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES		
28 34.7N		155 13.8W		6/20/77		0749		GMT							
Z	T	S	02	P04	SI03	NO2	NO3	DT	Z	T	S	02	SIGT	DT	DD
1	24.63								0	24.63					
11	24.63								10	24.63					
17									20	24.09					
21									30	23.32					
41	22.29								50	21.66					
47									75	20.46					
51									100	19.21					
62	20.94								125	18.39					
82	20.21								150	17.63					
88															
102	19.10														
112															
121	18.50														
126															
128															
141	17.94														
161	17.22														
170															
179															
181	16.40														

RV THOMAS WASHINGTON

INDOPAC LEG XV

CHL 20

LATITUDE 28 34.3N		LONGITUDE 155 12.7W		MO/DAY/YR 6/20/77		MESSENGER TIME 1100 GMT		BOTTOM		WIND	SPEED	WEATHER	DOMINANT WAVES		
Z	T	S	Q2	P04	S103	N02	N03	DT	Z	T	S	Q2	SIGT	DT	DD
1	24.59								0	24.59					
13	24.59								10	24.59					
15									20	24.16					
21									30	23.40					
41	22.37								50	21.69					
53									75	20.19					
61									100	19.39					
81	19.91								125	18.50					
89	19.67								150	17.43					
101															
108	19.16														
111															
121	18.66														
123															
125															
134	18.14														
141	17.84														
157															
161															
181	15.86														

RV THOMAS WASHINGTON

INDOPAC LEG XV

CHL 21

LATITUDE 28 38.0N		LONGITUDE 155 41.3W		MO/DAY/YR 6/20/77		MESSENGER TIME 1721 GMT		BOTTOM		WIND	SPEED	WEATHER	DOMINANT WAVES		
Z	T	S	Q2	P04	S103	N02	N03	DT	Z	T	S	Q2	SIGT	DT	DD
1	23.98								0	23.98					
16	23.26								10	23.57					
31									20	23.00					
46									30	22.35					
61	20.22								50	20.99					
76									75	19.36					
90									100	18.20					
95	18.37								125	17.59					
100	18.20								150	16.78					
105															
110	17.94														
115															
120	17.73														
125															
130															
135	17.30														
140	17.18														
150	16.78														

RV THOMAS WASHINGTON

INDOPAC LEG XV

CHL 22

LATITUDE 28 35.9N		LONGITUDE 155 20.3W		MO/DAY/YR 6/21/77		MESSENGER TIME 0435 GMT		BOTTOM		WIND	SPEED	WEATHER	DOMINANT WAVES		
Z	T	S	Q2	P04	S103	N02	N03	DT	Z	T	S	Q2	SIGT	DT	DD
1	24.90								0	24.90					
16	24.54								10	24.74					
31									20	24.23					
46									30	23.42					
60	20.62								50	21.62					
75									75	19.75					
80									100	18.53					
85	19.21								125	17.52					
90	18.91														
94															
100	18.53														
104															
110	18.30														
115															
119															
124	17.59														
134	17.02														
140	16.88														

RV THOMAS WASHINGTON

INDOPAC LEG XV

CHL 23

LATITUDE 28 36.7N		LONGITUDE 155 30.9W		MO/DAY/YR 6/22/77		MESSENGER TIME 0846 GMT		BOTTOM		WIND		SPEED		WEATHER		DOMINANT WAVES	
Z	T	S	Q2	P04	SI03	N02	N03	DT	Z	T	S	Q2	SIGT	DT	DD		
1	24.77								0	24.77							
2	24.78								10	24.42							
21									20	23.79							
32									30	22.98							
41	21.85								50	21.28							
55									75	19.77							
61									100	18.49							
81	19.43								125	17.47							
94	18.66								150	16.49							
100																	
104	18.38																
111																	
114	17.90																
119																	
129																	
139																	
157	16.21																
164																	
170	15.58																
176	15.27																

RV THOMAS WASHINGTON

INDOPAC LEG XV

CHL 24

LATITUDE 28 37.3N		LONGITUDE 155 28.9W		MO/DAY/YR 6/22/77		MESSENGER TIME 1107 GMT		BOTTOM		WIND		SPEED		WEATHER		DOMINANT WAVES	
Z	T	S	Q2	P04	SI03	N02	N03	DT	Z	T	S	Q2	SIGT	DT	DD		
1	24.74								0	24.74							
21	23.82								10	24.40							
37									20	23.88							
41									30	23.13							
47	21.76								50	21.59							
60									75	20.28							
81									100	18.89							
83	19.90								125	17.69							
99	18.96								150	16.63							
101																	
111	18.23																
115																	
121	17.86																
124																	
131																	
140																	
154	16.46																
161																	
168	15.99																
181	15.08																

RV THOMAS WASHINGTON

INDOPAC LEG XV

CHL 25

LATITUDE 28 32.9N		LONGITUDE 155 27.1W		MO/DAY/YR 6/24/77		MESSENGER TIME 0933 GMT		BOTTOM		WIND		SPEED		WEATHER		DOMINANT WAVES	
Z	T	S	Q2	P04	SI03	N02	N03	DT	Z	T	S	Q2	SIGT	DT	DD		
1	25.03								0	25.03							
6									10	24.32							
21									20	23.56							
41	22.05								30	22.83							
43									50	21.44							
53	21.24								75	20.04							
61									100	19.22							
81	19.78								125	18.43							
84									150	17.46							
101	19.20																
102	19.17																
111	18.92																
120																	
122	18.54																
124																	
141																	
150																	
160																	
169	16.72																
180	16.32																

RV THOMAS WASHINGTON INDOPAC LEG XV CHL 26

LATITUDE		LONGITUDE	MO/DAY/YR	MESSENGER	TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES					
28 34.3N	155 25.2W	6/24/77	1133	GMT											
Z	T	S	U2	P04	SI03	N02	N03	DT	Z	T	S	U2	SI6T	DT	DD
1	24.71								0	24.71					
3									10	24.39					
21									20	23.93					
28	23.48								30	23.33					
41									50	21.81					
57	21.28								75	20.34					
61									100	19.50					
81	20.09								125	18.79					
91									150	17.76					
100	19.50														
101	19.45														
112	19.18														
117															
122	18.90														
125															
141															
156															
161															
162	17.20														
181	16.40														

RV THOMAS WASHINGTON INDOPAC LEG XV CHL 27

LATITUDE		LONGITUDE	MO/DAY/YR	MESSENGER	TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES					
28 39.7N	155 26.4W	6/25/77	0105	GMT											
Z	T	S	U2	P04	SI03	N02	N03	DT	Z	T	S	U2	SI6T	DT	DD
1	25.13								0	25.13					
21									10	24.35					
26									20	23.55					
36	22.42								30	22.82					
41									50	21.63					
61	21.02								75	20.04					
69									100	19.04					
81	19.68								125	17.86					
83									150	16.45					
94	19.36														
100	19.04														
104	18.80														
113															
120	18.15														
125															
136															
140															
141															
159	15.96														
178	15.30														

RV THOMAS WASHINGTON INDOPAC LEG XV CHL 28

LATITUDE		LONGITUDE	MO/DAY/YR	MESSENGER	TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES					
28 38.0N	155 27.1W	6/25/77	0232	GMT											
Z	T	S	U2	P04	SI03	N02	N03	DT	Z	T	S	U2	SI6T	DT	DD
1	25.05								0	25.05					
4									10	24.94					
10									20	24.60					
21	24.55								30	23.81					
41									50	22.01					
59	21.12								75	20.15					
66									100	19.17					
81	19.86								125	18.25					
93									150	17.25					
101	19.14														
106	18.92														
111	18.71														
117															
121	18.36														
127															
141															
143															
149															
160	16.76														
180	15.46														

RV THOMAS WASHINGTON

INDOPAC LEG XV

S 38

LATITUDE 28 41.5N		LONGITUDE 155 20.6W		MO/DAY/YR 6/26/77		MESSENGER TIME 0755 GMT		TIME DT		BOTTOM M		WIND 0		SPEED KT		WEATHER 02		DOMINANT WAVES 0	
Z	T	S	02	P04	S103	N02	N03	DT	Z	T	S	02	SIGT	DT	DD				
1	24.68	35.314		0.05	2.3	0.01	0.1	420.9	0	24.68	35.314		23.696	420.9	0.000				
11	24.68	35.309		0.05	2.3	0.02	0.1	421.3	10	24.68	35.309		23.693	421.3	0.042				
21	24.66	35.310		0.04	2.3	0.00	0.0	420.6	20	24.66	35.309		23.698	420.7	0.084				
31	23.44	35.300		0.03	2.3	0.00	0.0	386.8	30	23.59	35.300		24.011	390.8	0.125				
52	21.35	35.249		0.01	3.0	0.00	0.0	334.1	50	21.51	35.254		24.566	338.0	0.198				
72	20.31	35.211		0.03	3.2	0.00	0.0	310.1	75	20.19	35.202		24.885	307.6	0.279				
102	19.21	35.094		0.06	3.7	0.03	0.1	291.2	100	19.28	35.104		25.048	292.0	0.355				
152	17.13	34.760		0.20	5.2	0.05	1.8	266.4	125	18.31	34.954		25.179	279.6	0.428				
202	14.46	34.389		0.38	6.8	0.03	4.8	236.1	150	17.22	34.776		25.308	267.4	0.497				
252	12.85	34.337		0.66	10.4	0.01	9.2	208.4	200	14.56	34.401		25.624	237.3	0.626				
302	11.79	34.298		0.82	13.1	0.00	11.7	191.8	250	12.90	34.337		25.919	209.3	0.741				
401	9.76	34.166		1.15	21.5	0.00	16.4	167.2	300	11.83	34.301		26.098	192.3	0.844				
499	7.79	34.045		1.69	37.0	0.03	24.5	146.9	400	9.78	34.169		26.360	167.4	1.032				
597	5.72	34.002						123.6	500	7.77	34.045		26.580	146.6	1.197				
695	4.81	34.077		2.90	84.1	0.00	40.5	107.9	600	5.68	34.004		26.827	123.1	1.340				
791	4.30	34.209		3.16	100.1	0.01	44.8	92.6	700	4.78	34.085		26.997	107.0	1.462				
888	3.99	34.321		3.25	111.2	0.00	45.0	81.1	800	4.27	34.221		27.161	91.5	1.569				
983	3.59	34.418		2.98	113.4	0.02	41.6	70.0	1000	3.55	34.430		27.403	68.6	1.744				

RV THOMAS WASHINGTON

INDOPAC LEG XV

CHL 29

LATITUDE		LONGITUDE		MO/DAY/YR		MESSENGER TIME		BOTTOM		WIND		SPEED		WEATHER		DOMINANT WAVES	
28 41.2N		155 20.6W		6/26/77		1822 GMT											
Z	T	S	02	P04	S103	N02	N03	DT	Z	T	S	02	SIGT	DT	DD		
1									0								
21	24.53								10								
26	23.99								20								
41									30	23.60							
61	21.22								50	21.94							
74									75	20.55							
77									100	19.45							
81									125	18.46							
98									150	17.14							
100																	
105																	
111	19.01																
113	18.90																
120	18.64																
130	18.25																
140	17.64																
158																	
159																	
165	16.58																
175	16.27																

RV THOMAS WASHINGTON

INDOPAC LEG XV

S 71

LATITUDE 28 41.0N		LONGITUDE 155 21.6W		MO/DAY/YR 6/27/77		MESSENGER TIME 0134 GMT		BOTTOM M		WIND 0		SPEED KT		WEATHER 02		DOMINANT WAVES 0	
Z	T	S	02	P04	S103	N02	N03	DT	Z	T	S	02	SIGT	DT	DD		
1	24.78	35.343						421.7	0	24.78	35.343		23.688	421.7	0.000		
11	24.75	35.340						421.1	10	24.75	35.340		23.694	421.1	0.042		
21	24.57	35.335						416.3	20	24.59	35.335		23.740	416.7	0.084		
31	23.53	35.310						388.6	30	23.65	35.312		24.001	391.8	0.125		
51	21.47	35.261						350.1	50	22.06	35.263		24.422	351.7	0.199		
71	20.64	35.230						317.1	75	20.44	35.219		24.831	312.7	0.283		
101	19.39	35.133						292.7	100	19.42	35.137		25.036	293.2	0.359		
151	17.84	34.901						272.5	125	18.64	35.032		25.157	281.7	0.432		
200	15.84	34.622						248.0	150	17.87	34.906		25.251	272.8	0.503		
250	13.71	34.403						220.1	200	15.84	34.622		25.512	248.0	0.636		
300	12.04	34.298						196.3	250	13.71	34.403		25.806	220.1	0.756		
349		34.258							300	12.04	34.298		26.056	196.3	0.864		
398	9.92	34.179						168.8	400	9.87	34.177		26.351	168.3	1.054		
497	7.67	34.040						145.6	500	7.60	34.039		26.598	144.9	1.218		
595	5.76	34.011						123.4	600	5.69	34.014		26.834	122.5	1.360		
693	4.79	34.091						106.6	700	4.74	34.101		27.013	105.4	1.481		
791	4.31	34.222						91.8	800	4.28	34.233		27.169	90.6	1.587		
889	4.00	34.324						81.0	1000	3.69	34.401		27.364	72.2	1.765		
986	3.72	34.392						73.2									

RV THOMAS WASHINGTON						INDOPAC LEG XV				CHL 31					
LATITUDE		LONGITUDE		MO/DAY/YR		MESSENGER TIME		BOTTOM		WIND SPEED		WEATHER		DOMINANT WAVES	
28 41.6N		155 22.3W		6/27/77		0410 GMT									
Z	T	S	02	P04	S103	N02	N03	DT	Z	T	S	02	S1GT	DT	DD
0	24.79														
2	24.78														
3	24.75														
4	24.73														
6	24.74														
7															
9	24.68														
10	24.65														
12	24.64														
13															
15															
16	24.56														

RV THOMAS WASHINGTON						INDOPAC LEG XV				CHL 32					
LATITUDE		LONGITUDE		MO/DAY/YR		MESSENGER TIME		BOTTOM		WIND SPEED		WEATHER		DOMINANT WAVES	
28 33.0N		155 31.5W		6/28/77		0236 GMT									
Z	T	S	02	P04	S103	N02	N03	DT	Z	T	S	02	S1GT	DT	DD
0	24.79														
2	24.79														
3															
4	24.79														
6	24.79														
7	24.79														
9	24.79														
10	24.79														
12															
13	24.79														
15															
16	24.78														

STD 1						INDOPAC LEG XV						STD 3					
LATITUDE	LONGITUDE	MO/DAY/YR	START TIME			LATITUDE	LONGITUDE	MO/DAY/YR	START TIME			LATITUDE	LONGITUDE	MO/DAY/YR	START TIME		
28 32.4N	155 31.2W	06/05/77	1703 GMT			28 33.3N	155 31.4W	06/05/77	2239 GMT			28 33.3N	155 31.4W	06/05/77	2239 GMT		
Z	T	S	SIGMA T	DT	DD	Z	T	S	SIGMA T	DT	DD	Z	T	S	SIGMA T	DT	DD
0	22.54	35.27	24.290	364.3	0.000	0	22.56	35.27	24.284	364.8	0.000	0	22.56	35.27	24.284	364.8	0.000
10	22.55	35.27	24.287	364.6	0.036	10	22.56	35.28	24.292	364.1	0.036	10	22.56	35.28	24.292	364.1	0.036
20	22.55	35.27	24.287	364.6	0.073	20	22.54	35.28	24.297	363.6	0.073	20	22.54	35.28	24.297	363.6	0.073
30	21.42	35.24	24.581	336.6	0.108	30	21.52	35.19	24.515	342.8	0.108	30	21.52	35.19	24.515	342.8	0.108
40	20.85	35.20	24.706	324.7	0.141	40	20.82	35.21	24.722	323.2	0.142	40	20.82	35.21	24.722	323.2	0.142
50	20.64	35.21	24.770	318.5	0.174	50	20.25	35.14	24.821	313.7	0.174	50	20.25	35.14	24.821	313.7	0.174
75	18.84	34.97	25.058	291.2	0.250	75	18.40	34.89	25.107	286.4	0.249	75	18.40	34.89	25.107	286.4	0.249
100	17.86	34.82	25.188	278.8	0.322	100	17.46	34.77	25.247	273.2	0.320	100	17.46	34.77	25.247	273.2	0.320
125	16.71	34.69	25.364	262.1	0.391	125	16.52	34.63	25.362	262.2	0.388	125	16.52	34.63	25.362	262.2	0.388
150	15.74	34.53	25.464	252.5	0.456	150	15.51	34.49	25.485	250.5	0.453	150	15.51	34.49	25.485	250.5	0.453
175	14.80	34.43	25.596	240.1	0.519	175	14.99	34.45	25.570	242.5	0.516	175	14.99	34.45	25.570	242.5	0.516
200	14.34	34.45	25.710	229.2	0.579	200	14.40	34.45	25.697	230.4	0.576	200	14.40	34.45	25.697	230.4	0.576
225	13.63	34.40	25.820	218.7	0.636	225	13.56	34.38	25.819	218.8	0.634	225	13.56	34.38	25.819	218.8	0.634
250	12.86	34.38	25.960	205.4	0.691	250	12.84	34.37	25.956	205.8	0.689	250	12.84	34.37	25.956	205.8	0.689
275	12.26	34.34	26.047	197.2	0.743	275	12.33	34.35	26.041	197.7	0.741	275	12.33	34.35	26.041	197.7	0.741
300	11.59	34.29	26.135	186.3	0.793	300	11.81	34.32	26.117	190.5	0.791	300	11.81	34.32	26.117	190.5	0.791
						350	10.73	34.26	26.268	176.2	0.886	350	10.73	34.26	26.268	176.2	0.886
						400	9.76	34.20	26.389	164.7	0.976	400	9.76	34.20	26.389	164.7	0.976
						450	8.84	34.14	26.492	155.0	1.060	450	8.84	34.14	26.492	155.0	1.060
						500	7.85	34.07	26.588	145.9	1.139	500	7.85	34.07	26.588	145.9	1.139
						550	6.91	34.04	26.697	135.4	1.213	550	6.91	34.04	26.697	135.4	1.213
						600	6.05	34.03	26.803	125.5	1.283	600	6.05	34.03	26.803	125.5	1.283
						650	5.41	34.05	26.897	116.5	1.347	650	5.41	34.05	26.897	116.5	1.347
						700	4.82	34.09	26.997	107.0	1.407	700	4.82	34.09	26.997	107.0	1.407
						750	4.49	34.15	27.081	99.0	1.462	750	4.49	34.15	27.081	99.0	1.462
						800	4.11	34.23	27.185	89.2	1.512	800	4.11	34.23	27.185	89.2	1.512
						850	4.18	34.28	27.218	86.1	1.560	850	4.18	34.28	27.218	86.1	1.560
						900	4.05	34.32	27.263	81.8	1.606	900	4.05	34.32	27.263	81.8	1.606
						950	3.86	34.35	27.306	77.7	1.650	950	3.86	34.35	27.306	77.7	1.650
						1000	3.70	34.39	27.354	73.2	1.692	1000	3.70	34.39	27.354	73.2	1.692

STD 5						INDOPAC LEG XV						STD 6 2					
LATITUDE	LONGITUDE	MO/DAY/YR	START TIME			LATITUDE	LONGITUDE	MO/DAY/YR	START TIME			LATITUDE	LONGITUDE	MO/DAY/YR	START TIME		
28 38.7N	155 31.6W	06/06/77	1313 GMT			28 36.0N	155 21.8W	06/10/77	1129 GMT			28 36.0N	155 21.8W	06/10/77	1129 GMT		
Z	T	S	SIGMA T	DT	DD	Z	T	S	SIGMA T	DT	DD	Z	T	S	SIGMA T	DT	DD
0	22.33	35.23	24.319	361.5	0.000	0	22.98	35.37	24.240	369.1	0.000	0	22.98	35.37	24.240	369.1	0.000
10	22.32	35.24	24.330	360.5	0.036	10	22.98	35.38	24.247	368.4	0.037	10	22.98	35.38	24.247	368.4	0.037
20	22.32	35.24	24.330	360.5	0.072	20	22.55	35.33	24.332	360.2	0.073	20	22.55	35.33	24.332	360.2	0.073
30	22.15	35.25	24.385	355.2	0.108	30	22.46	35.33	24.358	357.6	0.109	30	22.46	35.33	24.358	357.6	0.109
40	20.81	35.19	24.709	324.3	0.142	40	22.08	35.25	24.405	353.3	0.145	40	22.08	35.25	24.405	353.3	0.145
50	20.11	35.13	24.851	310.9	0.174	50	20.88	35.22	24.713	324.0	0.179	50	20.88	35.22	24.713	324.0	0.179
75	18.96	35.02	25.065	290.4	0.250	75	19.26	35.04	25.004	296.3	0.257	75	19.26	35.04	25.004	296.3	0.257
100	17.80	34.84	25.217	276.0	0.321	100	17.91	34.79	25.152	282.2	0.330	100	17.91	34.79	25.152	282.2	0.330
125	17.15	34.77	25.321	266.1	0.390	125	17.32	34.77	25.280	270.0	0.400	125	17.32	34.77	25.280	270.0	0.400
150	16.77	34.71	25.365	262.0	0.457	150	16.22	34.60	25.409	257.6	0.467	150	16.22	34.60	25.409	257.6	0.467
175	16.21	34.61	25.419	256.9	0.523	175	15.01	34.39	25.519	247.3	0.532	175	15.01	34.39	25.519	247.3	0.532
200	15.03	34.44	25.553	244.1	0.587	200	14.39	34.41	25.668	233.1	0.593	200	14.39	34.41	25.668	233.1	0.593
225	13.72	34.37	25.778	222.7	0.647	225	13.57	34.35	25.794	221.2	0.651	225	13.57	34.35	25.794	221.2	0.651
250	13.23	34.38	25.886	212.4	0.703	250	12.93	34.36	25.931	208.2	0.706	250	12.93	34.36	25.931	208.2	0.706
275	12.52	34.36	26.012	200.5	0.756	275	12.33	34.34	26.033	198.5	0.759	275	12.33	34.34	26.033	198.5	0.759
300	11.85	34.34	26.125	189.8	0.807	300	11.82	34.32	26.115	190.7	0.809	300	11.82	34.32	26.115	190.7	0.809
350	10.73	34.26	26.268	176.2	0.902	350	10.89	34.27	26.247	178.1	0.905	350	10.89	34.27	26.247	178.1	0.905
400	9.95	34.20	26.357	167.8	0.992	400	9.76	34.20	26.389	164.7	0.995	400	9.76	34.20	26.389	164.7	0.995
450	8.70	34.12	26.498	154.4	1.077	450	8.76	34.13	26.496	154.5	1.079	450	8.76	34.13	26.496	154.5	1.079
500	7.68	34.07	26.612	143.5	1.156	500	7.60	34.07	26.624	142.4	1.157	500	7.60	34.07	26.624	142.4	1.157
550	6.67	34.03	26.722	133.1	1.229	550	6.61	34.04	26.738	131.6	1.230	550	6.61	34.04	26.738	131.6	1.230
600	5.93	34.03	26.818	124.0	1.297	600	5.86	34.04	26.834	122.4	1.297	600	5.86	34.04	26.834	122.4	1.297
650	5.20	34.06	26.930	113.4	1.360	650	5.23	34.07	26.934	113.0	1.360	650	5.23	34.07	26.934	113.0	1.360
700	4.79	34.11	27.016	105.2	1.418	700	4.68	34.11	27.029	104.0	1.418	700	4.68	34.11	27.029	104.0	1.418
750	4.49	34.17	27.097	97.5	1.473	750	4.47	34.16	27.091	98.1	1.472	750	4.47	34.16	27.091	98.1	1.472
800	4.28	34.23	27.167	90.9	1.523	800	4.36	34.23	27.159	91.7	1.523	800	4.36	34.23	27.159	91.7	1.523
850	4.10	34.28	27.226	85.3	1.571	850	4.21	34.29	27.222	85.7	1.571	850	4.21	34.29	27.222	85.7	1.571
900	4.04	34.34	27.280	80.2	1.617	900	4.04	34.32	27.264	81.7	1.617	900	4.04	34.32	27.264	81.7	1.617
950	3.86	34.37	27.322	76.2	1.660	950	3.90	34.36	27.310	77.3	1.661	950	3.90	34.36	27.310	77.3	1.661
1000	3.68	34.40	27.364	72.2	1.701	1000	3.76	34.40	27.356	73.0	1.703	1000	3.76	34.40	27.356	73.0	1.703

STD 10						INDOPAC LEG XV						STD 12					
LATITUDE		LONGITUDE		MO/DAY/YR		START TIME		LATITUDE		LONGITUDE		MO/DAY/YR		START TIME			
28 36.5N		155 18.5W		06/11/77		1137 GMT		28 36.6N		155 18.1W		06/11/77		1443 GMT			
Z	T	S	SIGMA T	DT	DD	Z	T	S	SIGMA T	DT	DD	Z	T	S	SIGMA T		
0	23.07	35.35	24.199	373.0	0.000	0	23.07	35.36	24.206	372.3	0.000	0	23.07	35.36	24.206		
10	22.97	35.37	24.242	368.8	0.037	10	23.01	35.37	24.231	369.9	0.037	10	23.01	35.37	24.231		
20	22.51	35.34	24.351	358.4	0.074	20	22.81	35.36	24.281	365.2	0.074	20	22.81	35.36	24.281		
30	22.31	35.32	24.393	354.5	0.109	30	22.36	35.35	24.386	355.1	0.110	30	22.36	35.35	24.386		
40	21.19	35.20	24.613	333.5	0.144	40	21.60	35.22	24.516	342.8	0.145	40	21.60	35.22	24.516		
50	20.42	35.16	24.791	316.5	0.176	50	20.83	35.19	24.704	324.9	0.179	50	20.83	35.19	24.704		
75	19.19	35.05	25.030	293.9	0.253	75	19.35	35.06	24.996	297.1	0.257	75	19.35	35.06	24.996		
100	18.04	34.85	25.166	280.9	0.326	100	17.91	34.81	25.168	280.7	0.330	100	17.91	34.81	25.168		
125	17.07	34.75	25.325	265.8	0.395	125	17.01	34.73	25.324	265.9	0.399	125	17.01	34.73	25.324		
150	16.21	34.61	25.419	256.9	0.462	150	16.46	34.65	25.392	259.4	0.466	150	16.46	34.65	25.392		
175	15.21	34.49	25.552	244.2	0.525	175	15.66	34.55	25.493	249.8	0.531	175	15.66	34.55	25.493		
200	14.14	34.39	25.706	229.6	0.586	200	14.42	34.40	25.654	234.5	0.593	200	14.42	34.40	25.654		
225	13.58	34.40	25.830	217.8	0.643	225	13.75	34.39	25.787	221.8	0.651	225	13.75	34.39	25.787		
250	12.70	34.36	25.976	203.9	0.698	250	12.89	34.37	25.947	206.7	0.706	250	12.89	34.37	25.947		
275	12.22	34.35	26.062	195.7	0.749	275	12.37	34.35	26.033	198.5	0.759	275	12.37	34.35	26.033		
300	11.83	34.33	26.121	190.1	0.799	300	11.96	34.34	26.104	191.7	0.809	300	11.96	34.34	26.104		
350	10.62	34.27	26.295	173.6	0.894	350	10.88	34.28	26.257	177.2	0.905	350	10.88	34.28	26.257		
400	9.53	34.19	26.419	161.8	0.982	400	9.86	34.21	26.380	165.6	0.995	400	9.86	34.21	26.380		
450	8.58	34.13	26.524	151.8	1.064	450	8.78	34.14	26.501	154.1	1.079	450	8.78	34.14	26.501		
500	7.39	34.06	26.646	140.3	1.141	500	7.77	34.08	26.607	144.0	1.158	500	7.77	34.08	26.607		
550	6.48	34.04	26.755	130.0	1.213	550	6.82	34.04	26.710	134.3	1.231	550	6.82	34.04	26.710		
600	5.72	34.04	26.852	120.8	1.279	600	5.97	34.04	26.821	123.8	1.300	600	5.97	34.04	26.821		
650	5.03	34.07	26.958	110.8	1.341	650	5.25	34.06	26.924	113.9	1.363	650	5.25	34.06	26.924		
700	4.63	34.12	27.042	102.7	1.398	700	4.79	34.10	27.009	105.9	1.422	700	4.79	34.10	27.009		
750	4.36	34.18	27.119	95.4	1.451	750	4.45	34.16	27.094	97.9	1.476	750	4.45	34.16	27.094		
800	4.24	34.26	27.195	88.2	1.500	800	4.29	34.23	27.166	91.0	1.527	800	4.29	34.23	27.166		
850	4.09	34.32	27.259	82.2	1.547	850	4.15	34.29	27.229	85.1	1.575	850	4.15	34.29	27.229		
900	3.94	34.35	27.298	78.5	1.591	900	3.98	34.34	27.286	79.6	1.620	900	3.98	34.34	27.286		
950	3.81	34.39	27.343	74.2	1.633	950	3.82	34.38	27.334	75.1	1.663	950	3.82	34.38	27.334		
1000	3.67	34.42	27.381	70.6	1.673	1000	3.68	34.40	27.364	72.2	1.704	1000	3.68	34.40	27.364		

STD 14						INDOPAC LEG XV						STD 16					
LATITUDE		LONGITUDE		MO/DAY/YR		START TIME		LATITUDE		LONGITUDE		MO/DAY/YR		START TIME			
28 39.1N		155 10.5W		06/12/77		1219 GMT		28 21.6N		155 27.5W		06/13/77		1201 GMT			
Z	T	S	SIGMA T	DT	DD	Z	T	S	SIGMA T	DT	DD	Z	T	S	SIGMA T	DT	DD
0	23.34	35.25	24.045	387.7	0.000	0	24.20	35.31	23.837	407.5	0.000	0	24.20	35.31	23.837	407.5	0.000
10	22.97	35.25	24.132	377.5	0.036	10	24.03	35.27	23.857	405.6	0.041	10	24.03	35.27	23.857	405.6	0.041
20	22.52	35.33	24.341	359.4	0.075	20	23.22	35.28	24.102	382.2	0.080	20	23.22	35.28	24.102	382.2	0.080
30	21.95	35.26	24.449	349.2	0.111	30	23.17	35.28	24.117	380.8	0.118	30	23.17	35.28	24.117	380.8	0.118
40	20.96	35.20	24.676	327.5	0.145	40	22.79	35.35	24.279	365.3	0.156	40	22.79	35.35	24.279	365.3	0.156
50	20.29	35.15	24.818	314.0	0.177	50	21.82	35.33	24.538	340.6	0.191	50	21.82	35.33	24.538	340.6	0.191
75	19.07	35.04	25.053	291.7	0.253	75	20.16	35.20	24.885	307.6	0.273	75	20.16	35.20	24.885	307.6	0.273
100	18.36	34.95	25.163	281.1	0.326	100	19.25	35.12	25.067	290.5	0.348	100	19.25	35.12	25.067	290.5	0.348
125	17.15	34.74	25.298	268.3	0.395	125	18.39	34.99	25.186	278.9	0.420	125	18.39	34.99	25.186	278.9	0.420
150	16.32	34.58	25.370	261.5	0.462	150	17.50	34.86	25.306	267.6	0.490	150	17.50	34.86	25.306	267.6	0.490
175	15.48	34.46	25.469	252.1	0.528	175	16.35	34.72	25.471	251.9	0.556	175	16.35	34.72	25.471	251.9	0.556
200	14.22	34.36	25.681	231.9	0.590	200	14.96	34.54	25.645	235.3	0.618	200	14.96	34.54	25.645	235.3	0.618
225	13.63	34.40	25.820	218.7	0.647	225	13.79	34.42	25.802	220.4	0.677	225	13.79	34.42	25.802	220.4	0.677
250	12.71	34.35	25.967	204.8	0.702	250	13.09	34.38	25.914	209.8	0.732	250	13.09	34.38	25.914	209.8	0.732
275	12.24	34.34	26.051	196.8	0.754	275	12.48	34.35	26.012	200.5	0.785	275	12.48	34.35	26.012	200.5	0.785
300	11.69	34.32	26.140	188.4	0.804	300	11.74	34.33	26.134	188.5	0.836	300	11.74	34.33	26.134	188.5	0.836
350	10.57	34.25	26.289	174.2	0.898	350	10.67	34.26	26.279	175.2	0.930	350	10.67	34.26	26.279	175.2	0.930
400	9.75	34.20	26.390	164.6	0.967	400	9.69	34.19	26.393	164.4	1.019	400	9.69	34.19	26.393	164.4	1.019
450	8.72	34.13	26.503	153.9	1.071	450	8.63	34.14	26.524	151.8	1.102	450	8.63	34.14	26.524	151.8	1.102
500	7.80	34.07	26.595	145.2	1.149	500	7.64	34.08	26.626	142.2	1.180	500	7.64	34.08	26.626	142.2	1.180
550	6.72	34.04	26.723	133.0	1.223	550	6.56	34.02	26.729	132.5	1.253	550	6.56	34.02	26.729	132.5	1.253
600	5.79	34.04	26.843	121.6	1.291	600	5.65	34.01	26.837	122.2	1.320	600	5.65	34.01	26.837	122.2	1.320
650	5.20	34.06	26.930	113.4	1.353	650	4.92	34.04	26.946	111.8	1.382	650	4.92	34.04	26.946	111.8	1.382
700	4.70	34.10	27.019	105.0	1.411	700	4.51	34.11	27.047	102.2	1.439	700	4.51	34.11	27.047	102.2	1.439
750	4.43	34.16	27.096	97.7	1.465	750	4.29	34.17	27.119	95.5	1.492	750	4.29	34.17	27.119	95.5	1.492
800	4.30	34.24	27.173	90.3	1.516	800	4.28	34.25	27.183	89.4	1.542	800	4.28	34.25	27.183	89.4	1.542
850	4.15	34.30	27.237	84.3	1.564	850	4.11	34.30	27.241	83.9	1.589	850	4.11	34.30	27.241	83.9	1.589
900	3.96	34.33	27.280	80.2	1.609	900	3.98	34.34	27.286	79.6	1.634	900	3.98	34.34	27.286	79.6	1.634
950	3.82	34.38	27.334	75.1	1.652	950	3.82	34.38	27.334	75.1	1.676	950	3.82	34.38	27.334	75.1	1.676
1000	3.69	34.42	27.379	70.8	1.692	1000	3.69	34.42	27.379	70.8	1.717	1000	3.69	34.42	27.379	70.8	1.717
1100	3.43	34.46	27.436	65.4	1.769												
1200	3.19	34.49	27.483	61.0	1.840												
1300	3.02	34.52	27.523	57.2	1.908												

STD 18

INDOPAC LEG XV

STD 22

LATITUDE 28 44.0N	LONGITUDE 155 33.2W	MO/DAY/YR 06/14/77	START TIME 1100 GMT			LATITUDE 28 30.4N	LONGITUDE 155 30.8W	MO/DAY/YR 06/15/77	START TIME 1548 GMT		
Z	T	S	SIGMA T	DT	DD	Z	T	S	SIGMA T	DT	DD
0	23.08	35.14	24.037	388.4	0.000	0	24.53	35.38	23.791	411.9	0.000
10	23.10	35.15	24.039	388.3	0.039	10	23.73	35.35	24.036	391.3	0.040
20	22.00	35.09	24.306	362.8	0.076	20	22.62	35.23	24.237	369.3	0.073
30	21.64	35.10	24.414	352.5	0.112	30	22.52	35.28	24.303	363.0	0.115
40	20.58	35.15	24.741	521.3	0.146	40	20.81	35.06	24.610	333.8	0.150
50	20.12	35.12	24.840	311.9	0.178	50	20.28	35.05	24.745	321.0	0.183
75	19.11	35.06	25.058	291.2	0.254	75	18.82	34.94	25.046	292.9	0.260
100	17.85	34.83	25.198	277.9	0.326	100	18.01	34.88	25.197	278.0	0.322
125	16.82	34.64	25.300	268.2	0.395	125	17.07	34.72	25.302	268.0	0.401
150	16.13	34.55	25.391	259.5	0.452	150	16.31	34.58	25.373	261.2	0.459
175	14.97	34.40	25.536	245.8	0.526	175	15.56	34.53	25.505	248.7	0.534
200	14.28	34.45	25.723	228.0	0.587	200	14.97	34.48	25.597	239.4	0.596
225	13.64	34.42	25.833	217.5	0.644	225	13.73	34.38	25.784	222.2	0.655
250	12.88	34.36	25.956	205.6	0.698	250	13.17	34.36	25.883	212.6	0.711
275	12.30	34.36	26.054	196.4	0.750	275	12.46	34.34	26.008	200.9	0.755
300	11.69	34.32	26.140	188.4	0.800	300	11.81	34.31	26.109	191.2	0.815
350	10.67	34.26	26.279	175.2	0.895	350	10.73	34.27	26.276	175.4	0.911
400	9.84	34.20	26.375	166.0	0.984	400	9.75	34.19	26.383	165.3	1.000
450	8.86	34.14	26.488	155.3	1.069	450	8.81	34.13	26.488	155.3	1.084
500	7.90	34.08	26.588	145.8	1.148	500	7.80	34.07	26.595	145.2	1.164
550	6.69	34.03	26.719	133.4	1.222	550	6.67	34.04	26.730	132.4	1.237
600	5.74	34.02	26.834	122.5	1.290	600	5.79	34.03	26.835	122.4	1.305
650	5.21	34.05	26.921	114.2	1.353	650	5.20	34.05	26.922	114.1	1.367
700	4.77	34.08	26.995	107.2	1.412	700	4.76	34.09	27.004	106.4	1.426
750	4.42	34.16	27.097	97.6	1.467	750	4.44	34.16	27.095	97.8	1.481
800	4.22	34.22	27.166	91.0	1.517	800	4.30	34.22	27.157	91.8	1.532
850	4.05	34.28	27.231	84.8	1.565	850	4.15	34.28	27.221	85.8	1.580
900	3.90	34.32	27.278	80.3	1.610	900	3.96	34.32	27.272	80.9	1.628
950	3.77	34.36	27.323	76.1	1.653	950	3.81	34.37	27.327	75.7	1.669
971	3.73	34.37	27.335	74.9	1.671	1000	3.66	34.40	27.366	72.0	1.710

STD 24

INDOPAC LEG XV

STD 26

LATITUDE 28 32.1N	LONGITUDE 155 18.2W	MO/DAY/YR 06/16/77	START TIME 1033 GMT			LATITUDE 28 37.1N	LONGITUDE 155 27.3W	MO/DAY/YR 06/18/77	START TIME 1605 GMT		
Z	T	S	SIGMA T	DT	DD	Z	T	S	SIGMA T	DT	DD
0	24.41	35.32	23.782	412.8	0.000	0	24.46	35.27	23.729	417.8	0.000
10	24.19	35.31	23.840	407.2	0.041	10	24.44	35.29	23.750	415.8	0.042
20	23.35	35.36	24.125	380.0	0.080	20	22.67	35.08	24.109	381.5	0.082
30	23.23	35.37	24.167	376.0	0.118	30	22.05	35.11	24.307	362.7	0.119
40	22.03	35.25	24.419	352.0	0.155	40	21.40	35.07	24.457	348.4	0.155
50	21.12	35.21	24.640	330.9	0.189	50	20.80	35.15	24.681	327.0	0.189
75	19.89	35.19	24.954	301.0	0.269	75	19.39	35.02	24.955	300.9	0.268
100	18.74	35.00	25.106	286.6	0.343	100	18.22	34.89	25.152	282.2	0.341
125	17.64	34.82	25.241	273.7	0.414	125	17.05	34.70	25.291	269.0	0.411
150	16.54	34.62	25.350	263.4	0.482	150	16.39	34.61	25.377	260.8	0.478
175	15.50	34.49	25.488	250.3	0.548	175	14.86	34.34	25.513	247.9	0.543
200	14.58	34.39	25.612	238.5	0.610	200	14.35	34.40	25.669	233.1	0.605
225	13.81	34.38	25.767	223.7	0.669	225	13.44	34.39	25.851	215.8	0.662
250	12.69	34.35	25.971	204.4	0.724	250	12.68	34.34	25.965	205.0	0.716
275	12.29	34.33	26.033	198.5	0.776	275	12.16	34.32	26.050	196.8	0.768
300	11.63	34.30	26.135	188.8	0.827	300	11.65	34.31	26.139	188.4	0.818
350	10.57	34.25	26.289	174.2	0.921	350	10.55	34.25	26.292	173.9	0.912
400	9.50	34.17	26.409	162.8	1.009	400	9.47	34.18	26.421	161.6	1.000
450	8.55	34.11	26.513	152.9	1.092	450	8.36	34.10	26.535	150.9	1.082
500	7.60	34.06	26.616	143.1	1.170	500	7.30	34.05	26.651	139.8	1.159
550	6.75	34.03	26.711	134.1	1.244	550	6.50	34.02	26.737	131.7	1.231
600	5.97	34.03	26.813	124.5	1.312	600	5.70	34.03	26.846	121.3	1.298
650	5.13	34.04	26.922	114.1	1.376	650	5.13	34.06	26.938	112.6	1.360
700	4.60	34.07	27.006	106.2	1.434	700	4.66	34.10	27.023	104.5	1.418
750	4.41	34.15	27.090	98.2	1.489	750	4.41	34.16	27.096	97.5	1.472
800	4.28	34.22	27.159	91.6	1.540	800	4.31	34.24	27.172	90.4	1.522
850	4.15	34.28	27.221	85.8	1.588	850	4.13	34.30	27.239	84.1	1.570
900	3.88	34.31	27.272	80.9	1.634	900	3.97	34.33	27.279	80.3	1.615
950	3.85	34.36	27.315	76.9	1.677	950	3.83	34.37	27.325	75.9	1.658
1000	3.74	34.40	27.358	72.8	1.719	1000	3.67	34.40	27.365	72.1	1.699

STD 28						INDOPAC LEG XV						STD 30					
LATITUDE	LONGITUDE	MO/DAY/YR	START TIME			LATITUDE	LONGITUDE	MO/DAY/YR	START TIME			LATITUDE	LONGITUDE	MO/DAY/YR	START TIME		
28 31.0N	155 30.8W	06/21/77	1336 GMT			28 37.3N	155 28.7W	06/22/77	1136 GMT			28 31.0N	155 30.8W	06/21/77	1336 GMT		
Z	T	S	SIGMA T	DT	DO	Z	T	S	SIGMA T	DT	DO	Z	T	S	SIGMA T	DT	DO
0	24.59	35.33	23.735	417.2	0.000	0	24.69	35.33	23.705	420.1	0.000	0	24.59	35.33	23.735	417.2	0.000
10	24.60	35.34	23.740	416.8	0.042	10	24.70	35.34	23.709	419.6	0.042	10	24.60	35.34	23.740	416.8	0.042
20	24.20	35.31	23.837	407.5	0.083	20	24.54	35.34	23.758	415.0	0.084	20	24.20	35.31	23.837	407.5	0.083
30	23.43	35.32	24.071	385.1	0.123	30	23.59	35.31	24.017	390.3	0.124	30	23.43	35.32	24.071	385.1	0.123
40	22.41	35.35	24.387	355.0	0.160	40	22.71	35.34	24.294	365.9	0.162	40	22.41	35.35	24.387	355.0	0.160
50	21.64	35.32	24.581	336.6	0.195	50	21.89	35.28	24.481	346.1	0.198	50	21.64	35.32	24.581	336.6	0.195
75	20.43	35.21	24.827	313.2	0.276	75	20.42	35.22	24.837	312.2	0.281	75	20.43	35.21	24.827	313.2	0.276
100	19.17	35.10	25.073	289.7	0.353	100	19.17	35.00	24.997	297.0	0.357	100	19.17	35.10	25.073	289.7	0.353
125	18.39	35.00	25.194	278.2	0.425	125	17.88	34.83	25.190	278.6	0.430	125	18.39	35.00	25.194	278.2	0.425
150	16.87	34.76	25.380	260.6	0.493	150	16.67	34.61	25.312	267.0	0.500	150	16.87	34.76	25.380	260.6	0.493
175	15.54	34.51	25.494	249.7	0.558	175	15.95	34.55	25.432	255.6	0.566	175	15.54	34.51	25.494	249.7	0.558
200	14.32	34.35	25.637	236.1	0.620	200	14.56	34.34	25.578	241.7	0.630	200	14.32	34.35	25.637	236.1	0.620
225	13.75	34.42	25.811	219.6	0.679	225	13.87	34.43	25.793	221.3	0.689	225	13.75	34.42	25.811	219.6	0.679
250	12.71	34.36	25.974	204.1	0.733	250	13.00	34.37	25.925	208.8	0.744	250	12.71	34.36	25.974	204.1	0.733
275	11.91	34.32	26.098	192.3	0.784	275	12.36	34.34	26.027	199.0	0.797	275	11.91	34.32	26.098	192.3	0.784
300	11.31	34.29	26.187	183.9	0.833	300	11.89	34.32	26.102	191.9	0.848	300	11.31	34.29	26.187	183.9	0.833
350	10.35	34.24	26.319	171.3	0.925	350	10.83	34.27	26.258	177.1	0.944	350	10.35	34.24	26.319	171.3	0.925
400	9.27	34.17	26.446	159.3	1.012	400	9.77	34.19	26.379	165.6	1.034	400	9.27	34.17	26.446	159.3	1.012
450	8.33	34.10	26.539	150.4	1.093	450	8.69	34.12	26.499	154.2	1.118	450	8.33	34.10	26.539	150.4	1.093
500	7.31	34.05	26.650	140.0	1.170	500	7.73	34.07	26.605	144.2	1.196	500	7.31	34.05	26.650	140.0	1.170
550	6.29	34.02	26.764	129.1	1.241	550	6.67	34.03	26.722	133.1	1.270	550	6.29	34.02	26.764	129.1	1.241
600	5.52	34.03	26.868	119.2	1.307	600	5.78	34.02	26.829	123.0	1.336	600	5.52	34.03	26.868	119.2	1.307
650	4.95	34.06	26.959	110.6	1.368	650	5.19	34.06	26.931	113.3	1.400	650	4.95	34.06	26.959	110.6	1.368
700	4.76	34.13	27.036	103.4	1.425	700	4.73	34.09	27.007	106.0	1.459	700	4.76	34.13	27.036	103.4	1.425
750	4.45	34.18	27.109	96.4	1.478	750	4.46	34.15	27.085	98.7	1.514	750	4.45	34.18	27.109	96.4	1.478
800	4.23	34.24	27.180	89.6	1.528	800	4.33	34.21	27.146	92.9	1.565	800	4.23	34.24	27.180	89.6	1.528
850	4.14	34.28	27.222	85.7	1.576	850	4.22	34.27	27.205	87.3	1.614	850	4.14	34.28	27.222	85.7	1.576
900	3.96	34.32	27.272	80.9	1.622	900	4.03	34.31	27.257	82.4	1.660	900	3.96	34.32	27.272	80.9	1.622
950	3.81	34.35	27.311	77.2	1.665	950	3.88	34.35	27.304	77.9	1.705	950	3.81	34.35	27.311	77.2	1.665
1000	3.73	34.39	27.351	73.4	1.707	1000	3.73	34.40	27.359	72.7	1.746	1000	3.73	34.39	27.351	73.4	1.707

STD 32						INDOPAC LEG XV						STD 34					
LATITUDE	LONGITUDE	MO/DAY/YR	START TIME			LATITUDE	LONGITUDE	MO/DAY/YR	START TIME			LATITUDE	LONGITUDE	MO/DAY/YR	START TIME		
28 34.4N	155 25.2W	06/24/77	1201 GMT			28 41.2N	155 20.6W	06/26/77	0550 GMT			28 34.4N	155 25.2W	06/24/77	1201 GMT		
Z	T	S	SIGMA T	DT	DO	Z	T	S	SIGMA T	DT	DO	Z	T	S	SIGMA T	DT	DO
0	24.77	35.33	23.681	422.4	0.000	0	24.69	35.31	23.690	421.5	0.000	0	24.77	35.33	23.681	422.4	0.000
10	24.70	35.35	23.717	418.9	0.042	10	24.69	35.32	23.697	420.8	0.042	10	24.70	35.35	23.717	418.9	0.042
20	24.47	35.33	23.771	413.8	0.084	20	24.68	35.32	23.700	420.5	0.084	20	24.47	35.33	23.771	413.8	0.084
30	23.25	35.27	24.086	383.7	0.124	30	23.81	35.30	23.945	397.2	0.125	30	23.25	35.27	24.086	383.7	0.124
40	22.08	35.27	24.420	351.9	0.161	40	22.94	35.24	24.153	377.4	0.164	40	22.08	35.27	24.420	351.9	0.161
50	21.48	35.27	24.587	336.0	0.195	50	21.84	35.28	24.495	344.8	0.200	50	21.48	35.27	24.587	336.0	0.195
75	20.46	35.23	24.834	312.5	0.277	75	20.12	35.22	24.917	304.6	0.282	75	20.46	35.23	24.834	312.5	0.277
100	19.48	35.16	25.038	293.0	0.353	100	19.20	35.12	25.080	289.0	0.357	100	19.48	35.16	25.038	293.0	0.353
125	18.73	35.05	25.147	282.7	0.426	125	18.36	35.01	25.209	276.8	0.429	125	18.73	35.05	25.147	282.7	0.426
150	17.65	34.89	25.292	268.9	0.496	150	17.17	34.79	25.331	265.1	0.498	150	17.65	34.89	25.292	268.9	0.496
175	16.72	34.73	25.392	259.4	0.564	175	16.40	34.69	25.436	255.2	0.564	175	16.72	34.73	25.392	259.4	0.564
200	15.74	34.62	25.533	246.0	0.628	200	15.11	34.56	25.628	237.0	0.627	200	15.74	34.62	25.533	246.0	0.628
225	14.65	34.52	25.697	230.4	0.689	225	13.94	34.43	25.779	222.6	0.686	225	14.65	34.52	25.697	230.4	0.689
250	13.63	34.45	25.858	215.1	0.747	250	13.15	34.38	25.902	210.9	0.742	250	13.63	34.45	25.858	215.1	0.747
275	12.62	34.34	25.977	203.8	0.801	275	12.47	34.34	26.006	201.0	0.795	275	12.62	34.34	25.977	203.8	0.801
300	12.12	34.34	26.074	194.6	0.852	300	11.92	34.33	26.104	191.7	0.846	300	12.12	34.34	26.074	194.6	0.852
350	11.01	34.30	26.249	178.0	0.949	350	10.98	34.28	26.239	178.9	0.942	350	11.01	34.30	26.249	178.0	0.949
400	9.90	34.20	26.365	167.0	1.040	400	9.90	34.21	26.373	166.2	1.033	400	9.90	34.20	26.365	167.0	1.040
450	8.83	34.14	26.493	154.8	1.124	450	8.79	34.13	26.492	155.0	1.117	450	8.83	34.14	26.493	154.8	1.124
500	7.66	34.07	26.615	143.2	1.203	500	7.72	34.08	26.614	143.3	1.196	500	7.66	34.07	26.615	143.2	1.203
550	6.66	34.03	26.723	133.0	1.276	550	6.44	34.03	26.752	130.2	1.268	550	6.66	34.03	26.723	133.0	1.276
600	5.88	34.04	26.832	122.7	1.344	600	5.71	34.04	26.853	120.7	1.335	600	5.88	34.04	26.832	122.7	1.344
650	5.17	34.05	26.926	113.6	1.407	650	5.21	34.05	26.921	114.2	1.397	650	5.17	34.05	26.926	113.6	1.407
700	4.79	34.10	27.009	105.9	1.465	700	4.82	34.11	27.013	105.5	1.456	700	4.79	34.10	27.009	105.9	1.465
750	4.51	34.13	27.063	100.7	1.521	750	4.52	34.17	27.094	97.8	1.510	750	4.51	34.13	27.063	100.7	1.521
800	4.34	34.22	27.153	92.2	1.573	800	4.31	34.22	27.156	91.9	1.561	800	4.34	34.22	27.153	92.2	1.573
850	4.09	34.27	27.219	86.0	1.621	850	4.15	34.26	27.221	85.8	1.610	850	4.09	34.27	27.219	86.0	1.621
900	4.01	34.33	27.275	80.7	1.667	900	4.01	34.33	27.275	80.7	1.655	900	4.01	34.33	27.275	80.7	1.667
950	3.82	34.36	27.318	76.6	1.710	950	3.85	34.37	27.323	76.1	1.698	950	3.82	34.36	27.318	76.6	1.710
1000	3.72	34.39	27.352	73.3	1.751	1000	3.71	34.40	27.361	72.5	1.740	1000	3.72	34.39	27.352	73.3	1.751

STD35U						INDOPAC LEG XV						STD 36					
LATITUDE	LONGITUDE	MO/DAY/YR	START TIME			LATITUDE	LONGITUDE	MO/DAY/YR	START TIME			LATITUDE	LONGITUDE	MO/DAY/YR	START TIME		
28 41.1N	155 20.4W	06/26/77	0613 GMT			28 41.2N	155 20.4W	06/26/77	0625 GMT			28 41.2N	155 20.4W	06/26/77	0625 GMT		
Z	T	S	SIGMA T	DT	DD	Z	T	S	SIGMA T	DT	DD	Z	T	S	SIGMA T	DT	DD
0	24.69	35.32	23.697	420.6	0.000	0	24.70	35.31	23.687	421.8	0.000	0	24.70	35.31	23.687	421.8	0.000
10	24.69	35.32	23.697	420.6	0.042	10	24.69	35.32	23.697	420.8	0.042	10	24.69	35.32	23.697	420.8	0.042
20	24.67	35.32	23.703	420.2	0.084	20	24.69	35.32	23.697	420.8	0.084	20	24.69	35.32	23.697	420.8	0.084
30	23.71	35.31	23.982	393.7	0.125	30	24.50	35.30	23.740	416.8	0.126	30	24.50	35.30	23.740	416.8	0.126
40	22.89	35.39	24.281	365.2	0.163	40	23.33	35.30	24.085	383.8	0.166	40	23.33	35.30	24.085	383.8	0.166
50	21.70	35.32	24.564	338.2	0.198	50	22.01	35.23	24.409	352.9	0.203	50	22.01	35.23	24.409	352.9	0.203
75	20.01	35.23	24.953	301.1	0.279	75	20.04	35.18	24.907	365.5	0.286	75	20.04	35.18	24.907	365.5	0.286
100	19.19	35.12	25.083	288.6	0.353	100	19.24	35.10	25.055	291.5	0.362	100	19.24	35.10	25.055	291.5	0.362
125	18.23	34.99	25.226	275.2	0.425	125	18.28	34.98	25.206	277.1	0.434	125	18.28	34.98	25.206	277.1	0.434
150	17.18	34.78	25.321	266.1	0.494	150	17.20	34.78	25.317	266.6	0.503	150	17.20	34.78	25.317	266.6	0.503
175	16.26	34.72	25.491	249.9	0.559	175	16.26	34.70	25.476	251.4	0.569	175	16.26	34.70	25.476	251.4	0.569
200	14.75	34.52	25.676	232.4	0.621	200	15.06	34.66	25.639	235.9	0.631	200	15.06	34.66	25.639	235.9	0.631
225	13.83	34.41	25.786	221.9	0.679	225	13.98	34.44	25.778	222.7	0.690	225	13.98	34.44	25.778	222.7	0.690
250	12.89	34.36	25.939	207.4	0.735	250	12.99	34.36	25.919	209.3	0.746	250	12.99	34.36	25.919	209.3	0.746
275	12.48	34.35	26.012	200.5	0.787	275	12.41	34.34	26.013	199.9	0.798	275	12.41	34.34	26.013	199.9	0.798
300	11.88	34.33	26.112	191.0	0.838	300	11.83	34.32	26.113	190.9	0.849	300	11.83	34.32	26.113	190.9	0.849
350	10.91	34.28	26.251	177.7	0.934	350	10.82	34.27	26.260	177.0	0.945	350	10.82	34.27	26.260	177.0	0.945
400	9.88	34.21	26.376	165.9	1.024	400	9.73	34.20	26.394	164.2	1.034	400	9.73	34.20	26.394	164.2	1.034
450	8.73	34.14	26.509	153.3	1.108	450	8.58	34.12	26.517	152.6	1.117	450	8.58	34.12	26.517	152.6	1.117
500	7.63	34.07	26.620	142.8	1.186	500	7.53	34.09	26.626	142.2	1.195	500	7.53	34.09	26.626	142.2	1.195
550	6.39	34.04	26.767	128.9	1.258	550	6.35	34.03	26.764	129.1	1.267	550	6.35	34.03	26.764	129.1	1.267
600	5.67	34.04	26.858	120.2	1.324	600	5.67	34.04	26.858	120.2	1.333	600	5.67	34.04	26.858	120.2	1.333
650	5.19	34.05	26.923	114.0	1.386	650	5.22	34.05	26.920	114.4	1.395	650	5.22	34.05	26.920	114.4	1.395
700	4.74	34.12	27.030	103.9	1.444	700	4.78	34.11	27.018	105.1	1.454	700	4.78	34.11	27.018	105.1	1.454
750	4.50	34.18	27.104	96.9	1.498	750	4.53	34.17	27.093	97.9	1.508	750	4.53	34.17	27.093	97.9	1.508
800	4.27	34.23	27.168	90.6	1.549	800	4.31	34.22	27.156	91.9	1.559	800	4.31	34.22	27.156	91.9	1.559
850	4.15	34.28	27.221	85.8	1.597	850	4.16	34.27	27.212	86.7	1.608	850	4.16	34.27	27.212	86.7	1.608
900	3.99	34.33	27.277	80.5	1.642	900	4.01	34.32	27.267	81.4	1.654	900	4.01	34.32	27.267	81.4	1.654
950	3.84	34.37	27.324	76.0	1.685	950	3.86	34.36	27.314	76.9	1.697	950	3.86	34.36	27.314	76.9	1.697
1000	3.70	34.41	27.370	71.7	1.726	1000	3.71	34.40	27.361	72.5	1.739	1000	3.71	34.40	27.361	72.5	1.739

STD37U						INDOPAC LEG XV						STD 38					
LATITUDE	LONGITUDE	MO/DAY/YR	START TIME			LATITUDE	LONGITUDE	MO/DAY/YR	START TIME			LATITUDE	LONGITUDE	MO/DAY/YR	START TIME		
28 41.3N	155 20.5W	06/26/77	0700 GMT			28 41.4N	155 20.6W	06/26/77	0723 GMT			28 41.4N	155 20.6W	06/26/77	0723 GMT		
Z	T	S	SIGMA T	DT	DD	Z	T	S	SIGMA T	DT	DD	Z	T	S	SIGMA T	DT	DD
0	24.69	35.31	23.690	421.5	0.000	0	24.68	35.31	23.693	421.2	0.000	0	24.68	35.31	23.693	421.2	0.000
10	24.68	35.32	23.700	420.5	0.042	10	24.68	35.31	23.693	421.2	0.042	10	24.68	35.31	23.693	421.2	0.042
20	23.99	35.36	23.937	397.9	0.083	20	24.65	35.31	23.702	420.4	0.084	20	24.65	35.31	23.702	420.4	0.084
30	23.39	35.32	24.083	384.0	0.122	30	23.50	35.30	24.036	388.5	0.125	30	23.50	35.30	24.036	388.5	0.125
40	22.22	35.31	24.411	352.6	0.159	40	22.93	35.30	24.201	372.8	0.163	40	22.93	35.30	24.201	372.8	0.163
50	21.25	35.28	24.658	329.2	0.194	50	21.73	35.27	24.518	342.6	0.199	50	21.73	35.27	24.518	342.6	0.199
75	19.83	35.19	24.970	299.5	0.273	75	20.15	35.20	24.893	306.8	0.281	75	20.15	35.20	24.893	306.8	0.281
100	19.03	35.10	25.109	286.3	0.347	100	19.37	35.12	25.037	293.2	0.356	100	19.37	35.12	25.037	293.2	0.356
125	18.09	34.95	25.230	274.8	0.418	125	18.40	34.97	25.168	280.6	0.429	125	18.40	34.97	25.168	280.6	0.429
150	17.13	34.79	25.341	264.2	0.486	150	17.38	34.78	25.273	270.7	0.499	150	17.38	34.78	25.273	270.7	0.499
175	16.13	34.68	25.491	250.0	0.552	175	16.42	34.70	25.439	254.9	0.566	175	16.42	34.70	25.439	254.9	0.566
200	14.60	34.49	25.685	231.6	0.613	200	14.92	34.48	25.608	238.9	0.629	200	14.92	34.48	25.608	238.9	0.629
225	13.55	34.41	25.844	216.4	0.671	225	13.75	34.42	25.811	219.6	0.688	225	13.75	34.42	25.811	219.6	0.688
250	12.78	34.36	25.961	205.4	0.725	250	13.02	34.35	25.905	210.6	0.744	250	13.02	34.35	25.905	210.6	0.744
275	12.30	34.34	26.039	197.9	0.777	275	12.44	34.34	26.012	200.5	0.797	275	12.44	34.34	26.012	200.5	0.797
300	11.77	34.32	26.125	189.6	0.827	300	11.84	34.32	26.111	191.0	0.847	300	11.84	34.32	26.111	191.0	0.847
350	10.74	34.27	26.274	175.6	0.923	350	10.87	34.27	26.251	177.8	0.943	350	10.87	34.27	26.251	177.8	0.943
400	9.69	34.20	26.400	163.6	1.011	400	9.75	34.20	26.390	164.6	1.033	400	9.75	34.20	26.390	164.6	1.033
450	8.61	34.13	26.520	152.3	1.094	450	8.78	34.13	26.499	154.2	1.117	450	8.78	34.13	26.499	154.2	1.117
500	7.51	34.07	26.637	141.2	1.172	500	7.76	34.06	26.598	145.4	1.196	500	7.76	34.06	26.598	145.4	1.196
550	6.33	34.03	26.767	128.9	1.243	550	6.52	34.01	26.726	132.7	1.269	550	6.52	34.01	26.726	132.7	1.269
600	5.66	34.04	26.859	120.1	1.309	600	5.73	34.03	26.843	121.7	1.337	600	5.73	34.03	26.843	121.7	1.337
650	5.12	34.05	26.931	113.2	1.371	650	5.17	34.05	26.926	113.8	1.399	650	5.17	34.05	26.926	113.8	1.399
700	4.73	34.12	27.031	103.8	1.429	700	4.76	34.12	27.028	104.1	1.457	700	4.76	34.12	27.028	104.1	1.457
750	4.51	34.18	27.103	97.0	1.483	750	4.46	34.16	27.092	98.0	1.511	750	4.46	34.16	27.092	98.0	1.511
800	4.28	34.22	27.159	91.6	1.534	800	4.23	34.22	27.165	91.1	1.562	800	4.23	34.22	27.165	91.1	1.562
850	4.15	34.28	27.221	85.8	1.582	850	4.13	34.29	27.231	84.9	1.610	850	4.13	34.29	27.231	84.9	1.610
900	4.00	34.33	27.276	80.6	1.628	900	3.95	34.33	27.281	80.1	1.655	900	3.95	34.33	27.281	80.1	1.655
950	3.84	34.37	27.324	76.0	1.671	950	3.80	34.37	27.328	75.6	1.698	950	3.80	34.37	27.328	75.6	1.698
1000	3.70	34.41	27.370	71.7	1.712	1000	3.66	34.40	27.366	72.0	1.739	1000	3.66	34.40	27.366	72.0	1.739

STU39U						INDOPAC LEG XV						STD 40					
LATITUDE	LONGITUDE	MO/DAY/YR	START TIME			LATITUDE	LONGITUDE	MO/DAY/YR	START TIME			LATITUDE	LONGITUDE	MO/DAY/YR	START TIME		
28 41.5N	155 20.6W	06/26/77	0806 GMT			28 41.5N	155 20.7W	06/26/77	0843 GMT			28 41.5N	155 20.7W	06/26/77	0843 GMT		
Z	T	S	SIGMA T	DT	DD	Z	T	S	SIGMA T	DT	DD	Z	T	S	SIGMA T	DT	DD
0	24.65	35.31	23.702	420.4	0.000	0	24.63	35.32	23.716	419.1	0.000	0	24.63	35.32	23.716	419.1	0.000
10	24.64	35.32	23.712	419.4	0.042	10	24.63	35.32	23.716	419.1	0.042	10	24.63	35.32	23.716	419.1	0.042
20	24.63	35.32	23.716	419.1	0.084	20	24.63	35.31	23.708	419.8	0.084	20	24.63	35.31	23.708	419.8	0.084
30	24.04	35.30	23.877	403.7	0.125	30	24.06	35.32	23.886	402.8	0.125	30	24.06	35.32	23.886	402.8	0.125
40	22.96	35.28	24.177	375.0	0.164	40	23.16	35.30	24.129	379.6	0.164	40	23.16	35.30	24.129	379.6	0.164
50	21.94	35.27	24.459	348.2	0.201	50	22.19	35.24	24.366	357.0	0.201	50	22.19	35.24	24.366	357.0	0.201
75	20.56	35.26	24.830	312.9	0.264	75	20.79	35.26	24.768	318.4	0.264	75	20.79	35.26	24.768	318.4	0.264
100	19.53	35.15	25.018	295.0	0.361	100	19.61	35.15	24.997	296.9	0.361	100	19.61	35.15	24.997	296.9	0.361
125	18.48	35.01	25.179	279.6	0.433	125	18.64	35.01	25.139	283.5	0.433	125	18.64	35.01	25.139	283.5	0.433
150	17.45	34.82	25.287	269.4	0.503	150	17.59	34.84	25.269	271.1	0.503	150	17.59	34.84	25.269	271.1	0.503
175	16.67	34.73	25.404	258.3	0.570	175	16.84	34.74	25.371	261.3	0.576	175	16.84	34.74	25.371	261.3	0.576
200	14.77	34.42	25.594	240.2	0.634	200	15.14	34.45	25.537	245.7	0.641	200	15.14	34.45	25.537	245.7	0.641
225	14.02	34.44	25.770	223.5	0.694	225	14.17	34.45	25.746	225.8	0.701	225	14.17	34.45	25.746	225.8	0.701
250	12.94	34.36	25.929	208.4	0.749	250	13.00	34.36	25.917	209.5	0.757	250	13.00	34.36	25.917	209.5	0.757
275	12.43	34.34	26.014	200.3	0.802	275	12.41	34.33	26.010	200.7	0.810	275	12.41	34.33	26.010	200.7	0.810
300	11.86	34.32	26.108	191.4	0.853	300	11.84	34.30	26.096	192.5	0.861	300	11.84	34.30	26.096	192.5	0.861
350	10.84	34.25	26.241	178.8	0.949	350	10.96	34.26	26.227	180.1	0.958	350	10.96	34.26	26.227	180.1	0.958
400	9.76	34.18	26.373	166.2	1.032	400	9.76	34.19	26.361	165.5	1.049	400	9.76	34.19	26.361	165.5	1.049
450	8.76	34.13	26.496	154.5	1.124	450	8.71	34.11	26.469	155.3	1.133	450	8.71	34.11	26.469	155.3	1.133
500	7.74	34.07	26.604	144.3	1.202	500	7.62	34.06	26.613	143.4	1.232	500	7.62	34.06	26.613	143.4	1.232
550	6.50	34.02	26.737	131.7	1.275	550	6.45	34.01	26.735	131.8	1.284	550	6.45	34.01	26.735	131.8	1.284
600	5.71	34.02	26.837	122.2	1.343	600	5.71	34.02	26.837	122.2	1.352	600	5.71	34.02	26.837	122.2	1.352
650	5.18	34.04	26.917	114.7	1.405	650	5.15	34.05	26.928	113.6	1.414	650	5.15	34.05	26.928	113.6	1.414
700	4.79	34.10	27.009	105.9	1.454	700	4.77	34.11	27.019	105.0	1.473	700	4.77	34.11	27.019	105.0	1.473
750	4.43	34.16	27.096	97.7	1.519	750	4.42	34.16	27.097	97.6	1.527	750	4.42	34.16	27.097	97.6	1.527
800	4.29	34.22	27.158	91.7	1.570	800	4.27	34.22	27.160	91.5	1.578	800	4.27	34.22	27.160	91.5	1.578
850	4.12	34.29	27.232	84.8	1.618	850	4.15	34.27	27.213	86.6	1.626	850	4.15	34.27	27.213	86.6	1.626
900	3.94	34.34	27.290	79.2	1.663	900	4.01	34.32	27.267	81.4	1.672	900	4.01	34.32	27.267	81.4	1.672
950	3.80	34.37	27.328	75.6	1.705	950	3.84	34.36	27.316	76.8	1.716	950	3.84	34.36	27.316	76.8	1.716
1000	3.65	34.40	27.367	71.9	1.746	1000	3.70	34.39	27.354	73.2	1.757	1000	3.70	34.39	27.354	73.2	1.757

STU41U						INDOPAC LEG XV						STD 42					
LATITUDE	LONGITUDE	MO/DAY/YR	START TIME			LATITUDE	LONGITUDE	MO/DAY/YR	START TIME			LATITUDE	LONGITUDE	MO/DAY/YR	START TIME		
28 41.4N	155 20.8W	06/26/77	0908 GMT			28 41.4N	155 20.8W	06/26/77	0927 GMT			28 41.4N	155 20.8W	06/26/77	0927 GMT		
Z	T	S	SIGMA T	DT	DD	Z	T	S	SIGMA T	DT	DD	Z	T	S	SIGMA T	DT	DD
0	24.59	35.33	23.735	417.2	0.000	0	24.70	35.31	23.687	421.8	0.000	0	24.70	35.31	23.687	421.8	0.000
10	24.60	35.32	23.725	418.2	0.042	10	24.61	35.30	23.706	419.9	0.042	10	24.61	35.30	23.706	419.9	0.042
20	24.61	35.33	23.729	417.8	0.084	20	24.61	35.31	23.714	419.2	0.084	20	24.61	35.31	23.714	419.2	0.084
30	24.26	35.36	23.857	405.6	0.125	30	24.05	35.29	23.866	404.7	0.125	30	24.05	35.29	23.866	404.7	0.125
40	23.25	35.32	24.124	380.1	0.164	40	23.27	35.30	24.103	382.1	0.165	40	23.27	35.30	24.103	382.1	0.165
50	22.38	35.24	24.313	362.1	0.202	50	22.27	35.28	24.374	356.3	0.202	50	22.27	35.28	24.374	356.3	0.202
75	20.83	35.27	24.765	319.1	0.287	75	20.81	35.27	24.770	318.6	0.287	75	20.81	35.27	24.770	318.6	0.287
100	19.63	35.16	24.999	296.7	0.365	100	19.60	35.16	25.007	296.0	0.365	100	19.60	35.16	25.007	296.0	0.365
125	18.59	35.03	25.167	280.8	0.438	125	18.52	35.02	25.177	279.9	0.457	125	18.52	35.02	25.177	279.9	0.457
150	17.58	34.85	25.279	270.2	0.508	150	17.58	34.85	25.279	270.2	0.507	150	17.58	34.85	25.279	270.2	0.507
175	16.82	34.77	25.399	258.7	0.576	175	16.86	34.75	25.374	261.1	0.575	175	16.86	34.75	25.374	261.1	0.575
200	15.36	34.53	25.549	244.4	0.640	200	15.54	34.55	25.525	246.8	0.640	200	15.54	34.55	25.525	246.8	0.640
225	14.28	34.47	25.738	226.5	0.700	225	14.30	34.47	25.734	226.9	0.701	225	14.30	34.47	25.734	226.9	0.701
250	12.95	34.36	25.927	208.6	0.756	250	13.24	34.38	25.884	212.6	0.757	250	13.24	34.38	25.884	212.6	0.757
275	12.33	34.34	26.033	198.5	0.809	275	12.45	34.33	26.002	201.4	0.811	275	12.45	34.33	26.002	201.4	0.811
300	11.77	34.31	26.117	190.5	0.859	300	11.84	34.31	26.104	191.8	0.862	300	11.84	34.31	26.104	191.8	0.862
350	10.91	34.27	26.244	178.5	0.955	350	11.02	34.27	26.224	180.4	0.959	350	11.02	34.27	26.224	180.4	0.959
400	9.80	34.19	26.374	166.1	1.046	400	9.86	34.20	26.369	166.6	1.049	400	9.86	34.20	26.369	166.6	1.049
450	8.69	34.12	26.499	154.2	1.130	450	8.73	34.11	26.485	155.6	1.134	450	8.73	34.11	26.485	155.6	1.134
500	7.64	34.06	26.610	143.7	1.208	500	7.73	34.07	26.605	144.2	1.213	500	7.73	34.07	26.605	144.2	1.213
550	6.47	34.02	26.741	131.3	1.281	550	6.62	34.03	26.729	132.5	1.286	550	6.62	34.03	26.729	132.5	1.286
600	5.70	34.02	26.838	122.1	1.348	600	5.73	34.02	26.835	122.4	1.354	600	5.73	34.02	26.835	122.4	1.354
650	5.08	34.06	26.944	112.1	1.410	650	5.11	34.06	26.940	112.4	1.416	650	5.11	34.06	26.940	112.4	1.416
700	4.71	34.12	27.033	103.6	1.468	700	4.71	34.12	27.033	103.6	1.474	700	4.71	34.12	27.033	103.6	1.474
750	4.38	34.16	27.101	97.1	1.522	750	4.37	34.17	27.110	96.3	1.527	750	4.37	34.17	27.110	96.3	1.527
800	4.26	34.22	27.161	91.4	1.572	800	4.27	34.23	27.168	90.8	1.578	800	4.27	34.23	27.168	90.8	1.578
850	4.12	34.28	27.224	85.5	1.620	850	4.12	34.29	27.232	84.8	1.625	850	4.12	34.29	27.232	84.8	1.625
900	3.98	34.32	27.270	81.1	1.666	900	3.97	34.33	27.279	80.3	1.671	900	3.97	34.33	27.279	80.3	1.671
950	3.82	34.36	27.318	76.6	1.709	950	3.81	34.37	27.327	75.7	1.714	950	3.81	34.37	27.327	75.7	1.714
1000	3.66	34.41	27.374	71.3	1.750	1000	3.68	34.40	27.364	72.2	1.755	1000	3.68	34.40	27.364	72.2	1.755

STD43U						INDOPAC LEG XV						STD 44					
LATITUDE		LONGITUDE		MO/DAY/YR		START TIME		LATITUDE		LONGITUDE		MO/DAY/YR		START TIME			
28 41.5N		155 20.8W		06/26/77		0948 GMT		28 41.5N		155 20.8W		06/26/77		1013 GMT			
Z	T	S	SIGMA T	DT	DD	Z	T	S	SIGMA T	DT	DD	Z	T	S	SIGMA T	DT	DD
0	24.59	35.33	23.735	417.2	0.000	0	24.60	35.31	23.717	418.9	0.000	0	24.60	35.31	23.717	418.9	0.000
10	24.61	35.32	23.722	418.5	0.042	10	24.60	35.31	23.717	418.9	0.042	10	24.60	35.31	23.717	418.9	0.042
20	24.57	35.32	23.734	417.3	0.084	20	24.59	35.31	23.720	418.6	0.084	20	24.59	35.31	23.720	418.6	0.084
30	23.46	35.30	24.047	387.4	0.124	30	24.11	35.25	23.818	409.3	0.125	30	24.11	35.25	23.818	409.3	0.125
40	22.71	35.32	24.279	365.3	0.162	40	23.06	35.30	24.164	376.3	0.165	40	23.06	35.30	24.164	376.3	0.165
50	21.51	35.26	24.571	337.5	0.197	50	22.04	35.26	24.424	351.5	0.201	50	22.04	35.26	24.424	351.5	0.201
75	20.52	35.27	24.848	311.1	0.279	75	20.76	35.26	24.776	318.0	0.286	75	20.76	35.26	24.776	318.0	0.286
100	19.45	35.14	25.031	293.7	0.355	100	19.56	35.15	25.010	295.7	0.363	100	19.56	35.15	25.010	295.7	0.363
125	18.24	34.99	25.224	275.4	0.427	125	18.44	34.98	25.166	280.9	0.436	125	18.44	34.98	25.166	280.9	0.436
150	17.23	34.78	25.309	267.2	0.496	150	17.33	34.79	25.293	268.8	0.506	150	17.33	34.79	25.293	268.8	0.506
175	16.61	34.73	25.418	256.9	0.563	175	16.75	34.73	25.385	260.1	0.573	175	16.75	34.73	25.385	260.1	0.573
200	15.04	34.48	25.582	241.4	0.627	200	15.16	34.43	25.517	247.5	0.638	200	15.16	34.43	25.517	247.5	0.638
225	14.17	34.47	25.761	224.3	0.686	225	14.35	34.45	25.706	229.4	0.699	225	14.35	34.45	25.706	229.4	0.699
250	12.99	34.35	25.911	210.1	0.742	250	13.18	34.36	25.881	213.0	0.756	250	13.18	34.36	25.881	213.0	0.756
275	12.41	34.34	26.018	199.9	0.795	275	12.51	34.33	25.990	202.5	0.810	275	12.51	34.33	25.990	202.5	0.810
300	11.79	34.31	26.113	190.9	0.846	300	11.85	34.31	26.102	192.0	0.861	300	11.85	34.31	26.102	192.0	0.861
350	10.96	34.27	26.235	179.3	0.942	350	11.02	34.28	26.232	179.6	0.958	350	11.02	34.28	26.232	179.6	0.958
400	9.93	34.20	26.360	167.4	1.033	400	10.02	34.21	26.355	168.1	1.049	400	10.02	34.21	26.355	168.1	1.049
450	8.92	34.14	26.479	156.2	1.118	450	9.01	34.15	26.472	156.8	1.134	450	9.01	34.15	26.472	156.8	1.134
500	7.88	34.07	26.583	146.3	1.198	500	7.84	34.06	26.581	146.5	1.214	500	7.84	34.06	26.581	146.5	1.214
550	6.85	34.02	26.690	136.2	1.273	550	6.85	34.02	26.690	136.2	1.289	550	6.85	34.02	26.690	136.2	1.289
600	5.86	34.02	26.819	123.9	1.342	600	5.87	34.02	26.817	124.0	1.358	600	5.87	34.02	26.817	124.0	1.358
650	5.15	34.05	26.928	113.6	1.405	650	5.16	34.05	26.927	113.7	1.421	650	5.16	34.05	26.927	113.7	1.421
700	4.72	34.12	27.032	103.7	1.463	700	4.73	34.12	27.031	103.8	1.479	700	4.73	34.12	27.031	103.8	1.479
750	4.38	34.16	27.101	97.1	1.516	750	4.39	34.17	27.108	96.5	1.533	750	4.39	34.17	27.108	96.5	1.533
800	4.26	34.24	27.177	89.9	1.567	800	4.27	34.24	27.176	90.0	1.583	800	4.27	34.24	27.176	90.0	1.583
850	4.11	34.29	27.233	84.7	1.614	850	4.12	34.29	27.232	84.8	1.631	850	4.12	34.29	27.232	84.8	1.631
900	3.95	34.33	27.281	80.1	1.659	900	3.99	34.32	27.269	81.2	1.676	900	3.99	34.32	27.269	81.2	1.676
950	3.80	34.37	27.328	75.6	1.702	950	3.84	34.36	27.316	76.8	1.720	950	3.84	34.36	27.316	76.8	1.720
1000	3.65	34.40	27.367	71.9	1.743	1000	3.71	34.40	27.361	72.5	1.761	1000	3.71	34.40	27.361	72.5	1.761

STD45U						INDOPAC LEG XV						STD 46					
LATITUDE		LONGITUDE		MO/DAY/YR		START TIME		LATITUDE		LONGITUDE		MO/DAY/YR		START TIME			
28 41.5N		155 20.8W		06/26/77		1037 GMT		26 41.5N		155 21.0W		06/26/77		1105 GMT			
Z	T	S	SIGMA T	DT	DD	Z	T	S	SIGMA T	DT	DD	Z	T	S	SIGMA T		
0	24.59	35.31	23.720	418.6	0.000	0	24.60	35.31	23.717	418.9	0.000	0	24.60	35.33	23.732		
10	24.58	35.32	23.731	417.6	0.042	10	24.60	35.33	23.732	417.5	0.042	10	24.60	35.32	23.728		
20	24.56	35.33	23.744	416.3	0.084	20	24.59	35.32	23.728	417.9	0.084	20	24.59	35.30	23.951		
30	23.43	35.30	24.056	386.6	0.124	30	23.79	35.30	23.951	396.6	0.124	30	23.79	35.29	24.127		
40	22.88	35.44	24.321	361.3	0.161	40	23.16	35.29	24.127	379.8	0.163	40	23.16	35.25	24.385		
50	21.64	35.31	24.573	337.3	0.196	50	22.15	35.25	24.385	355.2	0.200	50	22.15	35.27	24.740		
75	20.78	35.27	24.778	317.8	0.279	75	20.92	35.27	24.740	321.4	0.286	75	20.92	35.15	24.984		
100	19.56	35.15	25.010	295.7	0.356	100	19.66	35.15	24.984	298.2	0.364	100	19.66	35.02	25.129		
125	18.59	35.04	25.174	280.1	0.429	125	18.71	35.02	25.129	284.4	0.438	125	18.71	34.82	25.280		
150	17.41	34.83	25.305	267.7	0.499	150	17.48	34.82	25.280	270.0	0.508	150	17.48	34.72	25.363		
175	16.80	34.75	25.389	259.7	0.566	175	16.81	34.72	25.363	262.1	0.576	175	16.81	34.47	25.534		
200	15.27	34.50	25.546	244.7	0.631	200	15.22	34.47	25.534	245.9	0.641	200	15.22	34.45	25.725		
225	14.31	34.46	25.724	227.9	0.691	225	14.27	34.45	25.725	227.8	0.701	225	14.27	34.34	25.871		
250	13.13	34.36	25.891	212.0	0.748	250	13.15	34.34	25.871	213.8	0.758	250	13.15	34.34	25.992		
275	12.53	34.34	25.994	202.2	0.801	275	12.54	34.34	25.992	202.3	0.812	275	12.54	34.31	26.104		
300	11.83	34.32	26.113	190.9	0.852	300	11.84	34.31	26.104	191.8	0.863	300	11.84	34.27	26.240		
350	10.93	34.27	26.240	178.8	0.948	350	10.93	34.27	26.240	178.8	0.960	350	10.93	34.19	26.347		
400	9.94	34.21	26.366	166.9	1.039	400	9.96	34.19	26.347	168.7	1.050	400	9.96	34.14	26.468		
450	8.96	34.14	26.473	156.8	1.124	450	8.99	34.14	26.468	157.2	1.136	450	8.99	34.06	26.580		
500	7.83	34.06	26.583	146.3	1.204	500	7.85	34.06	26.580	146.6	1.216	500	7.85	34.03	26.694		
550	6.80	34.04	26.712	134.0	1.278	550	6.88	34.03	26.694	135.8	1.291	550	6.88	34.03	26.815		
600	5.86	34.03	26.827	123.2	1.346	600	5.95	34.03	26.815	124.3	1.360	600	5.95	34.04	26.898		
650	5.17	34.05	26.926	113.8	1.409	650	5.34	34.04	26.898	116.4	1.424	650	5.34	34.09	26.991		
700	4.72	34.12	27.032	103.7	1.467	700	4.88	34.09	26.991	107.6	1.484	700	4.88	34.15	27.079		
750	4.38	34.17	27.109	96.4	1.521	750	4.51	34.15	27.079	99.2	1.539	750	4.51	34.21	27.151		
800	4.27	34.24	27.176	90.0	1.571	800	4.28	34.21	27.151	92.4	1.591	800	4.28	34.28	27.222		
850	4.11	34.30	27.241	83.9	1.619	850	4.14	34.28	27.222	85.7	1.639	850	4.14	34.32	27.267		
900	3.97	34.33	27.279	80.3	1.664	900	4.01	34.32	27.267	81.4	1.685	900	4.01	34.35	27.305		
950	3.84	34.36	27.316	76.8	1.707	950	3.87	34.35	27.305	77.8	1.729	950	3.87	34.39	27.349		
1000	3.70	34.40	27.362	72.4	1.748	1000	3.75	34.39	27.349	73.6	1.771	1000	3.75				

STD47U						INDOPAC LEG XV						STD 48					
LATITUDE		LONGITUDE		MO/DAY/YR		START TIME		LATITUDE		LONGITUDE		MO/DAY/YR		START TIME			
28 41.4N		155 20.8W		06/26/77		1138 GMT		28 41.3N		155 20.4W		06/26/77		1215 GMT			
Z	T	S	SIGMA T	DT	DD	Z	T	S	SIGMA T	DT	DD	Z	T	S	SIGMA T		
0	24.56	35.32	23.737	417.1	0.000	0	24.56	35.32	23.737	417.1	0.000	0	24.56	35.32	23.737		
10	24.56	35.32	23.737	417.1	0.042	10	24.56	35.32	23.737	417.1	0.042	10	24.56	35.32	23.737		
20	24.56	35.31	23.729	417.8	0.084	20	24.56	35.32	23.737	417.1	0.083	20	24.56	35.32	23.737		
30	23.84	35.33	23.959	395.9	0.124	30	24.18	35.33	23.858	405.5	0.125	30	24.18	35.33	23.858		
40	23.24	35.30	24.111	381.3	0.163	40	23.37	35.31	24.081	384.2	0.164	40	23.37	35.31	24.081		
50	22.22	35.30	24.403	353.5	0.200	50	22.48	35.22	24.269	366.3	0.202	50	22.48	35.22	24.269		
75	20.94	35.28	24.742	321.2	0.285	75	21.06	35.28	24.710	324.3	0.289	75	21.06	35.28	24.710		
100	19.82	35.20	24.980	298.5	0.363	100	19.79	35.18	24.973	299.2	0.368	100	19.79	35.18	24.973		
125	19.00	35.09	25.109	286.3	0.437	125	18.98	35.07	25.098	287.3	0.442	125	18.98	35.07	25.098		
150	17.72	34.91	25.291	269.0	0.508	150	17.77	34.90	25.271	270.9	0.513	150	17.77	34.90	25.271		
175	16.72	34.70	25.369	261.6	0.576	175	16.68	34.68	25.363	262.1	0.581	175	16.68	34.68	25.363		
200	15.91	34.65	25.518	247.4	0.641	200	15.95	34.64	25.501	249.0	0.646	200	15.95	34.64	25.501		
225	14.30	34.43	25.703	229.8	0.702	225	14.47	34.43	25.667	233.3	0.708	225	14.47	34.43	25.667		
250	13.33	34.38	25.866	214.4	0.759	250	13.31	34.36	25.854	215.4	0.766	250	13.31	34.36	25.854		
275	12.61	34.35	25.986	202.9	0.813	275	12.67	34.35	25.975	204.0	0.820	275	12.67	34.35	25.975		
300	11.94	34.31	26.085	193.6	0.864	300	11.96	34.33	26.096	192.5	0.871	300	11.96	34.33	26.096		
350	11.00	34.28	26.235	179.3	0.961	350	11.02	34.28	26.232	179.6	0.968	350	11.02	34.28	26.232		
400	10.05	34.21	26.347	168.0	1.052	400	9.94	34.20	26.358	167.6	1.059	400	9.94	34.20	26.358		
450	9.00	34.14	26.466	157.4	1.138	450	8.93	34.12	26.462	157.8	1.145	450	8.93	34.12	26.462		
500	7.83	34.07	26.591	145.6	1.218	500	7.84	34.06	26.581	146.5	1.225	500	7.84	34.06	26.581		
550	6.91	34.03	26.689	136.2	1.293	550	6.88	34.02	26.686	136.6	1.300	550	6.88	34.02	26.686		
600	5.92	34.02	26.811	124.6	1.362	600	5.92	34.02	26.811	124.6	1.369	600	5.92	34.02	26.811		
650	5.20	34.06	26.930	113.4	1.425	650	5.22	34.05	26.920	114.4	1.432	650	5.22	34.05	26.920		
700	4.80	34.11	27.015	105.3	1.483	700	4.76	34.10	27.012	105.6	1.491	700	4.76	34.10	27.012		
750	4.41	34.16	27.098	97.5	1.538	750	4.43	34.16	27.096	97.7	1.545	750	4.43	34.16	27.096		
800	4.27	34.23	27.168	90.8	1.588	800	4.28	34.22	27.159	91.6	1.596	800	4.28	34.22	27.159		
850	4.12	34.29	27.232	84.8	1.636	850	4.11	34.28	27.225	85.4	1.645	850	4.11	34.28	27.225		
900	3.98	34.33	27.278	80.4	1.681	900	4.00	34.32	27.268	81.3	1.690	900	4.00	34.32	27.268		
950	3.85	34.36	27.315	76.9	1.725	950	3.86	34.35	27.306	77.7	1.734	950	3.86	34.35	27.306		
1000	3.72	34.39	27.352	73.3	1.766	1000	3.71	34.40	27.361	72.5	1.776	1000	3.71	34.40	27.361		

STD49U						INDOPAC LEG XV						STD 50					
LATITUDE		LONGITUDE		MO/DAY/YR		START TIME		LATITUDE		LONGITUDE		MO/DAY/YR		START TIME			
28 41.1N		155 20.2W		06/26/77		1239 GMT		28 41.1N		155 20.1W		06/26/77		1304 GMT			
Z	T	S	SIGMA T	DT	DD	Z	T	S	SIGMA T	DT	DD	Z	T	S	SIGMA T		
0	24.56	35.31	23.729	417.8	0.000	0	24.55	35.32	23.740	416.8	0.000	0	24.55	35.32	23.740		
10	24.56	35.32	23.737	417.1	0.042	10	24.55	35.32	23.740	416.8	0.042	10	24.55	35.32	23.740		
20	24.53	35.32	23.746	416.2	0.083	20	24.55	35.32	23.740	416.8	0.083	20	24.55	35.32	23.740		
30	24.02	35.33	23.905	400.9	0.124	30	24.51	35.32	23.752	415.6	0.125	30	24.51	35.32	23.752		
40	23.41	35.32	24.077	384.6	0.164	40	23.65	35.30	23.992	392.7	0.166	40	23.65	35.30	23.992		
50	22.71	35.35	24.302	363.1	0.201	50	23.12	35.30	24.146	378.0	0.204	50	23.12	35.30	24.146		
75	21.13	35.29	24.698	325.4	0.288	75	21.27	35.25	24.630	331.9	0.294	75	21.27	35.25	24.630		
100	19.79	35.18	24.973	299.2	0.367	100	19.88	35.17	24.942	302.2	0.374	100	19.88	35.17	24.942		
125	18.97	35.08	25.109	286.3	0.441	125	19.08	35.07	25.073	289.7	0.449	125	19.08	35.07	25.073		
150	17.73	34.89	25.273	270.7	0.512	150	17.87	34.86	25.216	276.2	0.521	150	17.87	34.86	25.216		
175	16.74	34.70	25.364	262.0	0.580	175	16.75	34.69	25.354	263.0	0.589	175	16.75	34.69	25.354		
200	15.88	34.65	25.525	246.8	0.645	200	15.86	34.62	25.506	248.5	0.655	200	15.86	34.62	25.506		
225	14.23	34.44	25.725	227.7	0.706	225	14.19	34.43	25.726	227.6	0.716	225	14.19	34.43	25.726		
250	13.12	34.36	25.893	211.8	0.762	250	13.04	34.35	25.901	211.0	0.772	250	13.04	34.35	25.901		
275	12.54	34.34	25.992	202.3	0.816	275	12.54	34.34	25.992	202.3	0.826	275	12.54	34.34	25.992		
300	11.90	34.32	26.100	192.1	0.867	300	11.86	34.31	26.100	192.1	0.877	300	11.86	34.31	26.100		
350	10.89	34.27	26.247	178.1	0.963	350	10.85	34.25	26.239	178.9	0.973	350	10.85	34.25	26.239		
400	9.76	34.19	26.381	165.5	1.053	400	9.78	34.18	26.370	166.5	1.064	400	9.78	34.18	26.370		
450	8.72	34.14	26.510	153.2	1.137	450	8.84	34.12	26.476	156.5	1.149	450	8.84	34.12	26.476		
500	7.69	34.07	26.611	143.6	1.215	500	7.79	34.06	26.569	145.6	1.228	500	7.79	34.06	26.569		
550	6.68	34.02	26.713	134.0	1.289	550	6.84	34.02	26.691	136.0	1.303	550	6.84	34.02	26.691		
600	5.91	34.02	26.812	124.5	1.357	600	6.07	34.02	26.792	126.4	1.372	600	6.07	34.02	26.792		
650	5.24	34.05	26.917	114.6	1.421	650	5.40	34.04	26.891	117.1	1.437	650	5.40	34.04	26.891		
700	4.77	34.11	27.019	105.0	1.479	700	4.80	34.08	26.992	107.5	1.447	700	4.80	34.08	26.992		
750	4.47	34.15	27.084	98.0	1.534	750	4.55	34.14	27.067	100.4	1.553	750	4.55	34.14	27.067		
800	4.31	34.21	27.148	92.7	1.585	800	4.31	34.20	27.140	93.4	1.605	800	4.31	34.20	27.140		
850	4.14	34.28	27.222	85.7	1.634	850	4.17	34.26	27.203	87.5	1.654	850	4.17	34.26	27.203		
900	4.01	34.32	27.267	81.4	1.680	900	4.01	34.31	27.259	82.2	1.700	900	4.01	34.31	27.259		
950	3.87	34.35	27.305	77.8	1.723	950	3.91	34.35	27.301	76.2	1.744	950	3.91	34.35	27.301		
1000	3.74	34.39	27.350	73.5	1.765	1000	3.71	34.40	27.361	72.5	1.786	1000	3.71	34.40	27.361		

STD51U						INDOPAC LEG XV						STD 53					
LATITUDE	LONGITUDE	MO/DAY/YR	START TIME			LATITUDE	LONGITUDE	MO/DAY/YR	START TIME			LATITUDE	LONGITUDE	MO/DAY/YR	START TIME		
28 41.1N	155 20.0W	06/26/77	1350 GMT			28 41.1N	155 20.1W	06/26/77	1353 GMT			28 41.1N	155 20.1W	06/26/77	1353 GMT		
Z	T	S	SIGMA T	DT	DD	Z	T	S	SIGMA T	DT	DD	Z	T	S	SIGMA T	DT	DD
0	24.53	35.32	23.746	416.2	0.000	0	24.54	35.32	23.743	416.5	0.000	0	24.54	35.32	23.743	416.5	0.000
10	24.54	35.33	23.750	415.8	0.042	10	24.54	35.32	23.743	416.5	0.042	10	24.54	35.32	23.743	416.5	0.042
20	24.53	35.32	23.746	416.2	0.083	20	24.53	35.32	23.746	416.2	0.083	20	24.53	35.32	23.746	416.2	0.083
30	23.98	35.34	23.925	399.1	0.124	30	24.09	35.33	23.885	402.9	0.124	30	24.09	35.33	23.885	402.9	0.124
40	23.35	35.33	24.102	382.2	0.163	40	23.36	35.33	24.099	382.5	0.164	40	23.36	35.33	24.099	382.5	0.164
50	22.55	35.32	24.325	361.0	0.201	50	22.39	35.29	24.348	358.8	0.201	50	22.39	35.29	24.348	358.8	0.201
75	20.92	35.29	24.755	319.9	0.286	75	20.86	35.28	24.759	319.6	0.286	75	20.86	35.28	24.759	319.6	0.286
100	19.62	35.16	25.002	296.5	0.364	100	19.58	35.15	25.005	296.2	0.364	100	19.58	35.15	25.005	296.2	0.364
125	18.72	35.05	25.149	282.5	0.438	125	18.71	35.03	25.136	283.7	0.438	125	18.71	35.03	25.136	283.7	0.438
150	17.28	34.80	25.313	266.9	0.507	150	17.24	34.78	25.307	267.5	0.508	150	17.24	34.78	25.307	267.5	0.508
175	16.52	34.68	25.401	258.6	0.574	175	16.46	34.66	25.399	256.7	0.575	175	16.46	34.66	25.399	256.7	0.575
200	15.55	34.61	25.569	242.6	0.638	200	15.46	34.59	25.569	242.6	0.639	200	15.46	34.59	25.569	242.6	0.639
225	14.01	34.42	25.756	224.8	0.698	225	14.00	34.42	25.759	224.6	0.699	225	14.00	34.42	25.759	224.6	0.699
250	12.96	34.35	25.917	209.5	0.754	250	12.94	34.34	25.913	209.8	0.755	250	12.94	34.34	25.913	209.8	0.755
275	12.46	34.34	26.008	200.9	0.807	275	12.44	34.34	26.012	200.5	0.808	275	12.44	34.34	26.012	200.5	0.808
300	11.73	34.30	26.117	190.6	0.858	300	11.71	34.30	26.120	190.2	0.858	300	11.71	34.30	26.120	190.2	0.858
350	10.81	34.26	26.254	177.5	0.954	350	10.81	34.26	26.254	177.5	0.954	350	10.81	34.26	26.254	177.5	0.954
400	9.82	34.19	26.371	166.4	1.044	400	9.94	34.19	26.351	168.3	1.044	400	9.94	34.19	26.351	168.3	1.044
450	8.89	34.12	26.468	157.2	1.129	450	9.00	34.14	26.466	157.4	1.130	450	9.00	34.14	26.466	157.4	1.130
500	7.81	34.07	26.593	145.3	1.209	500	7.91	34.06	26.571	147.4	1.211	500	7.91	34.06	26.571	147.4	1.211
550	6.80	34.03	26.704	134.8	1.283	550	7.01	34.04	26.684	136.7	1.286	550	7.01	34.04	26.684	136.7	1.286
600	6.04	34.02	26.796	126.1	1.352	600	6.09	34.02	26.790	126.7	1.356	600	6.09	34.02	26.790	126.7	1.356
650	5.29	34.04	26.904	115.9	1.416	650	5.42	34.04	26.888	117.3	1.460	650	5.42	34.04	26.888	117.3	1.460
700	4.75	34.08	26.997	107.0	1.476	700	4.84	34.07	26.979	108.7	1.461	700	4.84	34.07	26.979	108.7	1.461
750	4.49	34.14	27.073	99.8	1.531	750	4.54	34.15	27.076	99.5	1.536	750	4.54	34.15	27.076	99.5	1.536
800	4.30	34.20	27.141	93.3	1.583	800	4.31	34.20	27.140	93.4	1.588	800	4.31	34.20	27.140	93.4	1.588
850	4.16	34.27	27.212	86.7	1.632	850	4.16	34.26	27.204	87.4	1.638	850	4.16	34.26	27.204	87.4	1.638
900	4.01	34.31	27.259	82.2	1.678	900	4.01	34.31	27.259	82.2	1.684	900	4.01	34.31	27.259	82.2	1.684
950	3.88	34.35	27.304	77.9	1.722	950	3.87	34.35	27.305	77.8	1.728	950	3.87	34.35	27.305	77.8	1.728
1000	3.73	34.38	27.343	74.2	1.764	1000	3.72	34.38	27.344	74.1	1.770	1000	3.72	34.38	27.344	74.1	1.770

STD54U						INDOPAC LEG XV						STD 55					
LATITUDE	LONGITUDE	MO/DAY/YR	START TIME			LATITUDE	LONGITUDE	MO/DAY/YR	START TIME			LATITUDE	LONGITUDE	MO/DAY/YR	START TIME		
28 41.1N	155 20.2W	06/26/77	1422 GMT			28 41.1N	155 20.2W	06/26/77	1447 GMT			28 41.1N	155 20.2W	06/26/77	1447 GMT		
Z	T	S	SIGMA T	DT	DD	Z	T	S	SIGMA T	DT	DD	Z	T	S	SIGMA T	DT	DD
0	24.52	35.32	23.749	415.9	0.000	0	24.54	35.32	23.743	416.5	0.000	0	24.54	35.32	23.743	416.5	0.000
10	24.53	35.31	23.738	416.9	0.042	10	24.53	35.32	23.746	416.2	0.042	10	24.53	35.32	23.746	416.2	0.042
20	24.49	35.32	23.758	415.1	0.083	20	24.52	35.32	23.749	415.9	0.083	20	24.52	35.32	23.749	415.9	0.083
30	23.49	35.31	24.046	387.5	0.124	30	23.86	35.31	23.938	397.9	0.124	30	23.86	35.31	23.938	397.9	0.124
40	23.00	35.31	24.188	374.0	0.162	40	23.22	35.27	24.095	382.9	0.163	40	23.22	35.27	24.095	382.9	0.163
50	22.03	35.31	24.464	347.7	0.198	50	22.25	34.27	24.372	356.5	0.200	50	22.25	34.27	24.372	356.5	0.200
75	20.73	35.27	24.791	316.5	0.282	75	20.89	35.26	24.741	321.3	0.286	75	20.89	35.26	24.741	321.3	0.286
100	19.54	35.16	25.023	294.5	0.359	100	19.64	35.15	24.989	297.7	0.364	100	19.64	35.15	24.989	297.7	0.364
125	18.66	35.05	25.164	281.0	0.432	125	18.79	35.04	25.124	284.9	0.438	125	18.79	35.04	25.124	284.9	0.438
150	17.31	34.82	25.321	266.1	0.501	150	17.54	34.82	25.265	271.4	0.508	150	17.54	34.82	25.265	271.4	0.508
175	16.42	34.68	25.424	256.4	0.568	175	16.47	34.67	25.405	258.2	0.576	175	16.47	34.67	25.405	258.2	0.576
200	15.37	34.60	25.601	239.5	0.631	200	15.58	34.61	25.562	243.3	0.640	200	15.58	34.61	25.562	243.3	0.640
225	13.83	34.43	25.802	220.5	0.690	225	14.11	34.43	25.743	226.0	0.700	225	14.11	34.43	25.743	226.0	0.700
250	12.91	34.35	25.927	208.5	0.745	250	13.00	34.34	25.902	211.0	0.756	250	13.00	34.34	25.902	211.0	0.756
275	12.40	34.34	26.020	199.8	0.798	275	12.40	34.33	26.012	200.5	0.810	275	12.40	34.33	26.012	200.5	0.810
300	11.71	34.31	26.128	189.5	0.849	300	11.76	34.31	26.110	190.4	0.860	300	11.76	34.31	26.110	190.4	0.860
350	10.82	34.27	26.260	177.0	0.944	350	10.79	34.26	26.257	177.2	0.956	350	10.79	34.26	26.257	177.2	0.956
400	9.95	34.21	26.364	167.0	1.034	400	9.96	34.20	26.355	167.9	1.046	400	9.96	34.20	26.355	167.9	1.046
450	9.04	34.14	26.460	158.0	1.119	450	9.03	34.14	26.461	157.8	1.132	450	9.03	34.14	26.461	157.8	1.132
500	7.94	34.07	26.574	147.1	1.200	500	8.01	34.07	26.564	148.1	1.213	500	8.01	34.07	26.564	148.1	1.213
550	7.00	34.03	26.677	137.4	1.275	550	7.06	34.03	26.669	138.2	1.288	550	7.06	34.03	26.669	138.2	1.288
600	6.09	34.02	26.790	126.7	1.345	600	6.10	34.02	26.786	126.8	1.359	600	6.10	34.02	26.786	126.8	1.359
650	5.42	34.04	26.888	117.3	1.410	650	5.44	34.04	26.886	117.6	1.424	650	5.44	34.04	26.886	117.6	1.424
700	4.80	34.09	27.000	106.8	1.470	700	4.85	34.07	26.978	106.6	1.464	700	4.85	34.07	26.978	106.6	1.464
750	4.48	34.14	27.074	99.7	1.525	750	4.53	34.14	27.069	100.2	1.540	750	4.53	34.14	27.069	100.2	1.540
800	4.30	34.22	27.157	91.8	1.577	800	4.31	34.21	27.148	92.7	1.592	800	4.31	34.21	27.148	92.7	1.592
850	4.12	34.28	27.224	85.5	1.625	850	4.14	34.28	27.222	85.7	1.640	850	4.14	34.28	27.222	85.7	1.640
900	4.00	34.32	27.268	81.3	1.671	900	4.00	34.32	27.268	81.3	1.686	900	4.00	34.32	27.268	81.3	1.686
950	3.84	34.36	27.316	76.8	1.714	950	3.85	34.36	27.315	76.9	1.729	950	3.85	34.36	27.315	76.9	1.729
1000	3.71	34.39	27.353	73.3	1.756	1000	3.70	34.41	27.370	71.7	1.771	1000	3.70	34.41	27.370	71.7	1.771

STD56U

INDOPAC LEG XV

STD 57

LATITUDE	LONGITUDE	MO/DAY/YR	START TIME	LATITUDE	LONGITUDE	MO/DAY/YR	START TIME				
28 41.1N	155 20.2W	06/26/77	1515 GMT	28 41.1N	155 20.3W	06/26/77	1542 GMT				
Z	T	S	SIGMA T	DT	DD	Z	T	S	SIGMA T	DT	DD
0	24.56	35.32	23.737	417.1	0.000	0	24.57	35.32	23.734	417.3	0.000
10	24.52	35.32	23.749	415.9	0.042	10	24.51	35.32	23.752	415.6	0.042
20	24.52	35.32	23.749	415.9	0.083	20	24.52	35.32	23.749	415.9	0.083
30	23.92	35.31	23.920	399.6	0.124	30	23.99	35.30	23.892	402.3	0.124
40	23.06	35.33	24.186	374.2	0.163	40	23.25	35.33	24.131	379.4	0.164
50	21.89	35.28	24.481	346.1	0.199	50	22.25	35.29	24.387	355.0	0.200
75	20.67	35.27	24.808	315.0	0.282	75	20.92	35.27	24.740	321.4	0.286
100	19.50	35.15	25.026	294.2	0.359	100	19.61	35.15	24.997	296.9	0.364
125	18.76	35.06	25.147	282.7	0.432	125	18.82	35.06	25.132	284.2	0.437
150	17.58	34.89	25.309	267.3	0.502	150	17.77	34.89	25.263	271.7	0.508
175	16.44	34.67	25.412	257.5	0.569	175	16.60	34.68	25.382	260.4	0.576
200	15.49	34.61	25.582	241.3	0.633	200	15.59	34.61	25.560	243.5	0.640
225	14.16	34.45	25.748	225.6	0.693	225	14.21	34.42	25.714	228.8	0.701
250	12.94	34.34	25.913	209.6	0.749	250	13.11	34.36	25.895	211.6	0.757
275	12.35	34.32	26.014	200.3	0.802	275	12.44	34.32	25.996	202.0	0.811
300	11.74	34.32	26.130	189.3	0.852	300	11.88	34.31	26.096	192.5	0.862
350	10.77	34.27	26.269	176.1	0.947	350	10.86	34.26	26.245	178.4	0.958
400	9.81	34.19	26.372	166.3	1.037	400	9.80	34.19	26.374	166.1	1.048
450	8.89	34.13	26.476	156.5	1.122	450	8.87	34.13	26.479	156.2	1.133
500	7.83	34.06	26.583	146.3	1.202	500	7.85	34.07	26.588	145.9	1.213
550	6.98	34.03	26.680	137.1	1.277	550	7.01	34.03	26.676	137.5	1.288
600	6.07	34.02	26.792	126.4	1.347	600	6.07	34.02	26.792	126.4	1.358
650	5.31	34.03	26.893	116.9	1.411	650	5.31	34.03	26.893	116.9	1.423
700	4.78	34.08	26.994	107.3	1.471	700	4.79	34.09	27.001	106.7	1.482
750	4.46	34.15	27.085	98.7	1.526	750	4.51	34.15	27.079	99.2	1.537
800	4.28	34.23	27.167	90.9	1.577	800	4.29	34.22	27.158	91.7	1.589
850	4.11	34.28	27.225	85.4	1.625	850	4.14	34.28	27.222	85.7	1.637
900	3.98	34.32	27.270	81.1	1.671	900	4.01	34.32	27.267	81.4	1.683
950	3.84	34.36	27.316	76.6	1.714	950	3.86	34.36	27.314	76.9	1.726
1000	3.70	34.40	27.362	72.4	1.756	1000	3.69	34.41	27.371	71.6	1.767

STD58U

INDOPAC LEG XV

STD 59

LATITUDE	LONGITUDE	MO/DAY/YR	START TIME	LATITUDE	LONGITUDE	MO/DAY/YR	START TIME				
28 41.1N	155 20.3W	06/26/77	1605 GMT	28 41.2N	155 20.4W	06/26/77	1636 GMT				
Z	T	S	SIGMA T	DT	DD	Z	T	S	SIGMA T	DT	DD
0	24.50	35.31	23.747	416.1	0.000	0	24.50	35.32	23.755	415.3	0.000
10	24.50	35.32	23.755	415.3	0.042	10	24.50	35.32	23.755	415.3	0.042
20	24.48	35.33	23.768	414.0	0.083	20	24.49	35.32	23.758	415.1	0.083
30	23.62	35.33	24.023	389.7	0.123	30	24.19	35.36	23.878	403.6	0.124
40	23.05	35.35	24.204	372.4	0.162	40	23.27	35.32	24.118	380.7	0.164
50	21.96	35.28	24.461	348.0	0.198	50	22.33	35.30	24.372	356.4	0.201
75	20.76	35.27	24.783	317.3	0.282	75	20.90	35.27	24.746	320.9	0.286
100	19.65	35.18	25.009	295.8	0.359	100	19.72	35.17	24.984	298.2	0.364
125	18.92	35.10	25.137	283.7	0.432	125	19.01	35.09	25.106	286.6	0.438
150	17.90	34.92	25.254	272.5	0.503	150	17.86	34.92	25.264	271.6	0.509
175	16.77	34.73	25.380	260.5	0.571	175	16.66	34.69	25.375	261.0	0.577
200	15.90	34.65	25.520	247.2	0.636	200	15.85	34.64	25.524	246.9	0.642
225	14.55	34.52	25.719	228.3	0.697	225	14.50	34.50	25.714	228.8	0.703
250	13.17	34.38	25.898	211.3	0.754	250	13.14	34.37	25.897	211.5	0.759
275	12.42	34.32	26.000	201.6	0.807	275	12.38	34.33	26.016	200.1	0.813
300	11.85	34.32	26.109	191.2	0.858	300	11.80	34.31	26.111	191.1	0.863
350	10.83	34.26	26.250	177.9	0.954	350	10.80	34.26	26.256	177.4	0.959
400	9.80	34.19	26.374	166.1	1.044	400	9.81	34.19	26.372	166.3	1.049
450	8.89	34.13	26.476	156.5	1.129	450	8.89	34.13	26.476	156.5	1.134
500	7.76	34.06	26.593	145.4	1.208	500	7.79	34.06	26.589	145.8	1.214
550	6.92	34.03	26.688	136.3	1.283	550	6.94	34.03	26.685	136.6	1.288
600	5.99	34.02	26.802	125.5	1.352	600	6.06	34.02	26.794	126.3	1.358
650	5.28	34.06	26.921	114.3	1.416	650	5.32	34.04	26.900	116.2	1.423
700	4.78	34.09	27.002	106.6	1.475	700	4.76	34.09	27.004	106.4	1.482
750	4.52	34.13	27.078	99.3	1.530	750	4.54	34.15	27.076	99.5	1.537
800	4.29	34.22	27.156	91.7	1.581	800	4.31	34.22	27.156	91.9	1.589
850	4.13	34.28	27.223	85.6	1.630	850	4.14	34.28	27.222	85.7	1.637
900	4.00	34.32	27.268	81.3	1.675	900	4.02	34.32	27.266	81.5	1.683
950	3.84	34.36	27.316	76.6	1.719	950	3.87	34.35	27.305	77.8	1.726
1000	3.70	34.39	27.354	73.2	1.760	1000	3.72	34.39	27.352	73.3	1.768

STD60U						INDOPAC LEG XV						STD 61					
LATITUDE	LONGITUDE	MO/DAY/YR	START TIME			LATITUDE	LONGITUDE	MO/DAY/YR	START TIME			LATITUDE	LONGITUDE	MO/DAY/YR	START TIME		
28 41.2N	155 20.4W	06/26/77	1700 GMT			28 41.2N	155 20.5W	06/26/77	1843 GMT			28 41.2N	155 20.5W	06/26/77	1843 GMT		
Z	T	S	SIGMA T	DT	DD	Z	T	S	SIGMA T	DT	DD	Z	T	S	SIGMA T	DT	DD
0	24.58	35.33	23.738	416.9	0.000	0	24.50	35.32	23.755	415.3	0.000	0	24.50	35.32	23.755	415.3	0.000
10	24.50	35.31	23.747	416.1	0.042	10	24.50	35.32	23.755	415.3	0.042	10	24.50	35.32	23.755	415.3	0.042
20	24.47	35.31	23.756	415.2	0.083	20	24.49	35.32	23.758	415.1	0.083	20	24.49	35.32	23.758	415.1	0.083
30	23.78	35.32	23.969	394.9	0.124	30	23.83	35.31	23.946	397.0	0.124	30	23.83	35.31	23.946	397.0	0.124
40	23.22	35.31	24.125	380.0	0.163	40	23.10	35.29	24.144	378.2	0.163	40	23.10	35.29	24.144	378.2	0.163
50	22.24	35.29	24.390	354.7	0.200	50	22.17	35.26	24.387	355.0	0.200	50	22.17	35.26	24.387	355.0	0.200
75	20.66	35.28	24.818	314.0	0.284	75	20.52	35.24	24.825	313.3	0.284	75	20.52	35.24	24.825	313.3	0.284
100	19.61	35.17	25.012	295.5	0.361	100	19.63	35.16	24.999	296.7	0.361	100	19.63	35.16	24.999	296.7	0.361
125	18.78	35.07	25.149	282.5	0.434	125	18.60	35.02	25.157	281.8	0.434	125	18.60	35.02	25.157	281.8	0.434
150	17.73	34.91	25.288	269.3	0.504	150	17.49	34.83	25.285	269.5	0.504	150	17.49	34.83	25.285	269.5	0.504
175	16.47	34.67	25.405	258.2	0.571	175	16.46	34.66	25.399	258.7	0.571	175	16.46	34.66	25.399	258.7	0.571
200	15.54	34.62	25.578	241.7	0.635	200	15.50	34.59	25.564	243.0	0.635	200	15.50	34.59	25.564	243.0	0.635
225	14.20	34.46	25.763	224.2	0.695	225	14.37	34.46	25.711	229.1	0.695	225	14.37	34.46	25.711	229.1	0.695
250	12.34	34.36	25.929	208.4	0.751	250	12.98	34.34	25.905	210.6	0.753	250	12.98	34.34	25.905	210.6	0.753
275	12.26	34.32	26.031	198.7	0.803	275	12.46	34.33	26.000	201.6	0.806	275	12.46	34.33	26.000	201.6	0.806
300	11.80	34.32	26.119	190.3	0.854	300	12.01	34.32	26.079	194.1	0.857	300	12.01	34.32	26.079	194.1	0.857
350	10.77	34.27	26.269	176.1	0.949	350	10.79	34.26	26.257	177.2	0.954	350	10.79	34.26	26.257	177.2	0.954
400	9.82	34.19	26.371	166.4	1.039	400	9.92	34.20	26.362	167.3	1.044	400	9.92	34.20	26.362	167.3	1.044
450	8.84	34.13	26.484	155.7	1.123	450	8.78	34.11	26.477	156.3	1.129	450	8.78	34.11	26.477	156.3	1.129
500	7.75	34.06	26.594	145.2	1.203	500	7.78	34.06	26.590	145.6	1.209	500	7.78	34.06	26.590	145.6	1.209
550	6.67	34.03	26.695	135.7	1.277	550	6.77	34.01	26.693	135.9	1.283	550	6.77	34.01	26.693	135.9	1.283
600	5.98	34.03	26.812	124.6	1.346	600	5.81	34.02	26.825	123.3	1.352	600	5.81	34.02	26.825	123.3	1.352
650	5.16	34.04	26.919	114.4	1.410	650	5.08	34.04	26.928	113.6	1.415	650	5.08	34.04	26.928	113.6	1.415
700	4.74	34.10	27.014	105.4	1.468	700	4.75	34.09	27.005	106.3	1.473	700	4.75	34.09	27.005	106.3	1.473
750	4.55	34.14	27.067	100.4	1.523	750	4.53	34.15	27.077	99.4	1.528	750	4.53	34.15	27.077	99.4	1.528
800	4.30	34.22	27.157	91.8	1.575	800	4.27	34.22	27.160	91.5	1.580	800	4.27	34.22	27.160	91.5	1.580
850	4.14	34.28	27.222	85.7	1.623	850	4.13	34.27	27.215	86.4	1.628	850	4.13	34.27	27.215	86.4	1.628
900	4.01	34.32	27.267	81.4	1.669	900	4.01	34.32	27.267	81.4	1.674	900	4.01	34.32	27.267	81.4	1.674
950	3.85	34.36	27.315	76.9	1.713	950	3.85	34.35	27.307	77.6	1.718	950	3.85	34.35	27.307	77.6	1.718
1000	3.71	34.39	27.353	73.3	1.754	1000	3.69	34.39	27.355	73.1	1.759	1000	3.69	34.39	27.355	73.1	1.759

STD62U						INDOPAC LEG XV						STD 62					
LATITUDE	LONGITUDE	MO/DAY/YR	START TIME			LATITUDE	LONGITUDE	MO/DAY/YR	START TIME			LATITUDE	LONGITUDE	MO/DAY/YR	START TIME		
28 41.2N	155 20.7W	06/26/77	1910 GMT			28 41.1N	155 20.9W	06/26/77	1954 GMT			28 41.1N	155 20.9W	06/26/77	1954 GMT		
Z	T	S	SIGMA T	DT	DD	Z	T	S	SIGMA T	DT	DD	Z	T	S	SIGMA T	DT	DD
0	24.53	35.31	23.738	416.9	0.000	0	24.58	35.32	23.731	417.6	0.000	0	24.58	35.32	23.731	417.6	0.000
10	24.52	35.32	23.749	415.9	0.042	10	24.54	35.32	23.743	416.5	0.042	10	24.54	35.32	23.743	416.5	0.042
20	24.49	35.33	23.765	414.3	0.083	20	24.52	35.32	23.749	415.9	0.083	20	24.52	35.32	23.749	415.9	0.083
30	23.67	35.32	24.001	391.6	0.124	30	23.73	35.29	23.961	395.7	0.124	30	23.73	35.29	23.961	395.7	0.124
40	23.12	35.37	24.199	372.9	0.162	40	22.67	35.30	24.276	365.7	0.162	40	22.67	35.30	24.276	365.7	0.162
50	22.22	35.29	24.396	354.2	0.199	50	21.82	35.22	24.455	348.6	0.198	50	21.82	35.22	24.455	348.6	0.198
75	20.48	35.29	24.874	308.7	0.282	75	20.30	35.24	24.884	307.7	0.281	75	20.30	35.24	24.884	307.7	0.281
100	19.58	35.16	25.012	295.5	0.358	100	19.34	35.13	25.052	291.7	0.356	100	19.34	35.13	25.052	291.7	0.356
125	18.52	35.02	25.177	279.9	0.431	125	18.27	34.96	25.209	276.8	0.429	125	18.27	34.96	25.209	276.8	0.429
150	17.45	34.86	25.316	266.4	0.501	150	17.20	34.79	25.324	265.8	0.497	150	17.20	34.79	25.324	265.8	0.497
175	16.28	34.67	25.449	254.0	0.567	175	16.04	34.65	25.488	250.2	0.563	175	16.04	34.65	25.488	250.2	0.563
200	15.23	34.56	25.617	238.0	0.630	200	15.18	34.57	25.620	237.7	0.626	200	15.18	34.57	25.620	237.7	0.626
225	14.14	34.46	25.760	224.4	0.689	225	14.15	34.43	25.735	226.8	0.685	225	14.15	34.43	25.735	226.8	0.685
250	12.86	34.34	25.929	208.3	0.745	250	12.90	34.35	25.929	208.4	0.741	250	12.90	34.35	25.929	208.4	0.741
275	12.30	34.32	26.024	199.4	0.798	275	12.28	34.31	26.020	199.8	0.794	275	12.28	34.31	26.020	199.8	0.794
300	11.97	34.32	26.087	193.4	0.848	300	11.91	34.31	26.090	193.0	0.845	300	11.91	34.31	26.090	193.0	0.845
350	10.85	34.27	26.254	177.5	0.945	350	10.81	34.26	26.254	177.5	0.941	350	10.81	34.26	26.254	177.5	0.941
400	9.92	34.20	26.362	167.3	1.035	400	9.91	34.20	26.363	167.1	1.031	400	9.91	34.20	26.363	167.1	1.031
450	8.75	34.11	26.482	155.9	1.120	450	8.74	34.12	26.492	155.0	1.116	450	8.74	34.12	26.492	155.0	1.116
500	7.75	34.06	26.594	145.2	1.199	500	7.79	34.06	26.589	145.8	1.195	500	7.79	34.06	26.589	145.8	1.195
550	6.70	34.02	26.710	134.2	1.273	550	6.74	34.03	26.713	134.0	1.269	550	6.74	34.03	26.713	134.0	1.269
600	5.75	34.02	26.832	122.6	1.341	600	5.80	34.02	26.826	123.2	1.338	600	5.80	34.02	26.826	123.2	1.338
650	4.98	34.03	26.932	113.2	1.404	650	5.10	34.03	26.918	114.5	1.401	650	5.10	34.03	26.918	114.5	1.401
700	4.73	34.09	27.007	106.0	1.462	700	4.76	34.09	27.004	106.4	1.460	700	4.76	34.09	27.004	106.4	1.460
750	4.51	34.15	27.079	99.2	1.517	750	4.53	34.14	27.069	100.2	1.515	750	4.53	34.14	27.069	100.2	1.515
800	4.26	34.23	27.169	90.7	1.568	800	4.30	34.21	27.149	92.6	1.567	800	4.30	34.21	27.149	92.6	1.567
850	4.14	34.27	27.214	86.5	1.617	850	4.15	34.27	27.213	86.6	1.615	850	4.15	34.27	27.213	86.6	1.615
900	3.99	34.32	27.269	81.2	1.662	900	4.01	34.31	27.259	82.2	1.661	900	4.01	34.31	27.259	82.2	1.661
950	3.84	34.35	27.306	77.5	1.706	950	3.85	34.35	27.307	77.6	1.705	950	3.85	34.35	27.307	77.6	1.705
1000	3.69	34.39	27.355	73.1	1.748	1000	3.70	34.38	27.346	73.9	1.747	1000	3.70	34.38	27.346	73.9	1.747

STD64U						INDOPAC LEG XV						STD 65					
LATITUDE	LONGITUDE	MO/DAY/YR	START TIME			LATITUDE	LONGITUDE	MO/DAY/YR	START TIME			LATITUDE	LONGITUDE	MO/DAY/YR	START TIME		
28 41.1N	155 21.1W	06/26/77	2015 GMT			28 41.0N	155 21.2W	06/26/77	2036 GMT			28 41.1N	155 21.2W	06/26/77	2036 GMT		
Z	T	S	SIGMA T	DT	DD	Z	T	S	SIGMA T	DT	DD	Z	T	S	SIGMA T	DT	DD
0	24.57	35.33	23.741	416.6	0.000	0	24.57	35.32	23.734	417.3	0.000	0	24.57	35.32	23.734	417.3	0.000
10	24.56	35.33	23.744	416.3	0.042	10	24.56	35.32	23.737	417.1	0.042	10	24.56	35.32	23.737	417.1	0.042
20	24.52	35.32	23.749	415.9	0.083	20	24.54	35.32	23.743	416.5	0.083	20	24.54	35.32	23.743	416.5	0.083
30	23.64	35.36	24.040	388.1	0.124	30	23.86	35.28	23.915	400.0	0.124	30	23.86	35.28	23.915	400.0	0.124
40	22.61	35.35	24.330	360.4	0.161	40	22.79	35.30	24.241	368.9	0.163	40	22.79	35.30	24.241	368.9	0.163
50	21.70	35.23	24.496	344.7	0.197	50	21.84	35.26	24.479	346.2	0.199	50	21.84	35.26	24.479	346.2	0.199
75	20.15	35.21	24.901	306.1	0.279	75	20.33	35.18	24.830	312.8	0.282	75	20.33	35.18	24.830	312.8	0.282
100	19.28	35.14	25.075	289.5	0.334	100	19.29	35.10	25.042	292.7	0.338	100	19.29	35.10	25.042	292.7	0.338
125	18.25	34.98	25.213	276.4	0.425	125	18.30	34.97	25.193	278.3	0.431	125	18.30	34.97	25.193	278.3	0.431
150	17.12	34.78	25.336	264.7	0.494	150	17.22	34.79	25.320	266.3	0.500	150	17.22	34.79	25.320	266.3	0.500
175	15.90	34.64	25.513	247.9	0.560	175	16.03	34.64	25.483	250.7	0.566	175	16.03	34.64	25.483	250.7	0.566
200	15.06	34.55	25.631	236.7	0.622	200	15.12	34.54	25.610	238.7	0.628	200	15.12	34.54	25.610	238.7	0.628
225	13.95	34.43	25.777	222.8	0.680	225	14.05	34.45	25.771	223.4	0.688	225	14.05	34.45	25.771	223.4	0.688
250	12.81	34.37	25.963	205.2	0.736	250	12.65	34.35	25.939	207.4	0.743	250	12.65	34.35	25.939	207.4	0.743
275	12.28	34.32	26.027	199.0	0.788	275	12.31	34.32	26.042	199.6	0.796	275	12.31	34.32	26.042	199.6	0.796
300	11.83	34.31	26.106	191.6	0.838	300	11.84	34.31	26.104	191.8	0.846	300	11.84	34.31	26.104	191.8	0.846
350	10.75	34.25	26.257	177.3	0.934	350	10.82	34.27	26.260	177.0	0.942	350	10.82	34.27	26.260	177.0	0.942
400	9.77	34.19	26.379	165.6	1.024	400	9.83	34.20	26.377	165.8	1.032	400	9.83	34.20	26.377	165.8	1.032
450	8.73	34.12	26.493	154.8	1.108	450	8.74	34.12	26.492	155.0	1.116	450	8.74	34.12	26.492	155.0	1.116
500	7.77	34.06	26.592	145.5	1.188	500	7.77	34.06	26.592	145.5	1.196	500	7.77	34.06	26.592	145.5	1.196
550	6.64	34.02	26.718	133.5	1.261	550	6.57	34.02	26.727	132.6	1.269	550	6.57	34.02	26.727	132.6	1.269
600	5.73	34.02	26.835	122.4	1.329	600	5.72	34.02	26.836	122.3	1.337	600	5.72	34.02	26.836	122.3	1.337
650	5.02	34.04	26.935	112.9	1.392	650	5.03	34.04	26.934	113.0	1.399	650	5.03	34.04	26.934	113.0	1.399
700	4.72	34.10	27.016	105.2	1.450	700	4.72	34.11	27.024	104.4	1.457	700	4.72	34.11	27.024	104.4	1.457
750	4.47	34.15	27.084	98.8	1.504	750	4.46	34.16	27.092	98.0	1.511	750	4.46	34.16	27.092	98.0	1.511
800	4.30	34.22	27.157	91.6	1.556	800	4.31	34.22	27.156	91.9	1.562	800	4.31	34.22	27.156	91.9	1.562
850	4.14	34.27	27.214	86.5	1.604	850	4.15	34.26	27.205	87.3	1.611	850	4.15	34.26	27.205	87.3	1.611
900	3.99	34.32	27.269	81.2	1.650	900	4.02	34.31	27.256	82.3	1.657	900	4.02	34.31	27.256	82.3	1.657
950	3.84	34.36	27.316	76.6	1.693	950	3.85	34.35	27.307	77.6	1.701	950	3.85	34.35	27.307	77.6	1.701
1000	3.69	34.39	27.355	73.1	1.735	1000	3.79	34.39	27.354	73.2	1.743	1000	3.79	34.39	27.354	73.2	1.743

STD66U						INDOPAC LEG XV						STD 67					
LATITUDE	LONGITUDE	MO/DAY/YR	START TIME			LATITUDE	LONGITUDE	MO/DAY/YR	START TIME			LATITUDE	LONGITUDE	MO/DAY/YR	START TIME		
28 41.0N	155 21.3W	06/26/77	2103 GMT			28 41.1N	155 20.7W	06/26/77	2157 GMT			28 41.1N	155 20.7W	06/26/77	2157 GMT		
Z	T	S	SIGMA T	DT	DD	Z	T	S	SIGMA T	DT	DD	Z	T	S	SIGMA T	DT	DD
0	24.64	35.32	23.712	419.4	0.000	0	24.60	35.33	23.732	417.5	0.000	0	24.60	35.33	23.732	417.5	0.000
10	24.58	35.33	23.738	416.9	0.042	10	24.57	35.32	23.734	417.3	0.042	10	24.57	35.32	23.734	417.3	0.042
20	24.52	35.33	23.756	415.2	0.083	20	24.29	35.28	23.787	412.2	0.083	20	24.29	35.28	23.787	412.2	0.083
30	23.97	35.34	23.928	398.8	0.124	30	23.42	35.28	24.044	387.7	0.123	30	23.42	35.28	24.044	387.7	0.123
40	23.04	35.34	24.200	372.9	0.163	40	22.30	35.28	24.366	357.1	0.161	40	22.30	35.28	24.366	357.1	0.161
50	21.94	35.27	24.459	348.2	0.199	50	21.47	35.24	24.567	337.9	0.196	50	21.47	35.24	24.567	337.9	0.196
75	20.45	35.27	24.867	309.3	0.282	75	20.31	35.24	24.881	308.0	0.277	75	20.31	35.24	24.881	308.0	0.277
100	19.46	35.15	25.036	293.2	0.358	100	19.31	35.14	25.067	290.3	0.353	100	19.31	35.14	25.067	290.3	0.353
125	18.39	35.01	25.202	277.5	0.430	125	18.26	34.98	25.211	276.6	0.424	125	18.26	34.98	25.211	276.6	0.424
150	17.30	34.83	25.331	265.2	0.499	150	17.14	34.78	25.331	265.2	0.493	150	17.14	34.78	25.331	265.2	0.493
175	15.99	34.64	25.492	249.9	0.565	175	16.03	34.65	25.491	250.0	0.559	175	16.03	34.65	25.491	250.0	0.559
200	15.07	34.57	25.644	235.4	0.627	200	15.04	34.55	25.635	236.2	0.621	200	15.04	34.55	25.635	236.2	0.621
225	13.93	34.44	25.788	221.7	0.686	225	14.18	34.47	25.759	224.5	0.680	225	14.18	34.47	25.759	224.5	0.680
250	12.84	34.36	25.949	206.5	0.741	250	12.86	34.34	25.929	208.3	0.736	250	12.86	34.34	25.929	208.3	0.736
275	12.30	34.32	26.024	199.4	0.793	275	12.36	34.33	26.020	199.8	0.789	275	12.36	34.33	26.020	199.8	0.789
300	11.87	34.32	26.106	191.6	0.844	300	11.85	34.31	26.102	192.0	0.839	300	11.85	34.31	26.102	192.0	0.839
350	10.85	34.25	26.239	178.9	0.940	350	10.77	34.26	26.261	176.8	0.935	350	10.77	34.26	26.261	176.8	0.935
400	9.84	34.19	26.367	166.7	1.031	400	9.76	34.19	26.381	165.5	1.025	400	9.76	34.19	26.381	165.5	1.025
450	8.74	34.12	26.492	155.0	1.115	450	8.72	34.12	26.495	154.7	1.109	450	8.72	34.12	26.495	154.7	1.109
500	7.77	34.06	26.592	145.5	1.195	500	7.81	34.06	26.586	146.0	1.188	500	7.81	34.06	26.586	146.0	1.188
550	6.58	34.03	26.734	132.0	1.268	550	6.73	34.03	26.714	133.9	1.262	550	6.73	34.03	26.714	133.9	1.262
600	5.71	34.02	26.837	122.2	1.335	600	5.80	34.02	26.826	123.2	1.331	600	5.80	34.02	26.826	123.2	1.331
650	5.02	34.04	26.935	112.9	1.398	650	5.10	34.04	26.926	113.8	1.393	650	5.10	34.04	26.926	113.8	1.393
700	4.72	34.11	27.024	104.4	1.456	700	4.75	34.10	27.013	105.5	1.452	700	4.75	34.10	27.013	105.5	1.452
750	4.40	34.16	27.099	97.3	1.510	750	4.45	34.16	27.094	97.9	1.506	750	4.45	34.16	27.094	97.9	1.506
800	4.28	34.22	27.159	91.6	1.561	800	4.28	34.22	27.159	91.6	1.557	800	4.28	34.22	27.159	91.6	1.557
850	4.14	34.27	27.214	86.5	1.609	850	4.13	34.28	27.223	85.6	1.605	850	4.13	34.28	27.223	85.6	1.605
900	4.01	34.32	27.267	81.4	1.655	900	3.98	34.32	27.270	81.1	1.651	900	3.98	34.32	27.270	81.1	1.651
950	3.84	34.35	27.308	77.5	1.699	950	3.82	34.36	27.316	76.6	1.695	950	3.82	34.36	27.316	76.6	1.695
1000	3.69	34.39	27.355	73.1	1.740	1000	3.68	34.39	27.356	73.6	1.736	1000	3.68	34.39	27.356	73.6	1.736

STD66U						INDOPAC LEG XV						STD 69					
LATITUDE	LONGITUDE	MO/DAY/YR	START TIME			LATITUDE	LONGITUDE	MO/DAY/YR	START TIME			LATITUDE	LONGITUDE	MO/DAY/YR	START TIME		
28 41.2N	155 22.0W	06/26/77	2243 GMT			28 41.0N	155 21.6W	06/27/77	0001 GMT			28 41.0N	155 21.6W	06/27/77	0001 GMT		
Z	T	S	SIGMA T	DT	DD	Z	T	S	SIGMA T	DT	DD	Z	T	S	SIGMA T	DT	DD
0	24.65	35.33	23.717	418.9	0.000	0	24.67	35.33	23.711	419.5	0.000	0	24.67	35.33	23.711	419.5	0.000
10	24.64	35.33	23.720	418.6	0.042	10	24.66	35.33	23.714	419.2	0.042	10	24.66	35.33	23.714	419.2	0.042
20	24.54	35.33	23.750	415.8	0.084	20	24.34	35.34	23.816	409.3	0.083	20	24.34	35.34	23.816	409.3	0.083
30	23.68	35.32	23.998	392.1	0.124	30	22.99	35.31	24.191	373.7	0.123	30	22.99	35.31	24.191	373.7	0.123
40	22.54	35.31	24.320	361.4	0.162	40	22.14	35.26	24.396	354.2	0.159	40	22.14	35.26	24.396	354.2	0.159
50	21.86	35.27	24.481	346.0	0.198	50	21.45	35.24	24.572	337.4	0.194	50	21.45	35.24	24.572	337.4	0.194
75	20.48	35.24	24.836	312.3	0.280	75	19.88	35.15	24.927	303.6	0.275	75	19.88	35.15	24.927	303.6	0.275
100	19.36	35.14	25.054	291.5	0.357	100	19.04	35.09	25.096	287.3	0.349	100	19.04	35.09	25.096	287.3	0.349
125	18.39	35.00	25.194	278.2	0.429	125	18.18	34.95	25.208	276.9	0.421	125	18.18	34.95	25.208	276.9	0.421
150	17.53	34.86	25.298	268.3	0.498	150	17.26	34.81	25.325	265.7	0.490	150	17.26	34.81	25.325	265.7	0.490
175	16.19	34.64	25.446	254.2	0.565	175	16.06	34.63	25.468	252.1	0.556	175	16.06	34.63	25.468	252.1	0.556
200	15.31	34.59	25.607	239.0	0.628	200	15.17	34.56	25.615	238.2	0.618	200	15.17	34.56	25.615	238.2	0.618
225	14.41	34.51	25.741	226.2	0.688	225	14.27	34.48	25.748	225.6	0.678	225	14.27	34.48	25.748	225.6	0.678
250	13.08	34.36	25.901	211.0	0.744	250	13.02	34.37	25.921	209.2	0.734	250	13.02	34.37	25.921	209.2	0.734
275	12.36	34.34	26.027	199.0	0.797	275	12.29	34.33	26.033	198.5	0.787	275	12.29	34.33	26.033	198.5	0.787
300	11.87	34.32	26.106	191.6	0.847	300	11.78	34.31	26.115	190.7	0.837	300	11.78	34.31	26.115	190.7	0.837
350	10.86	34.26	26.245	178.4	0.944	350	10.84	34.27	26.256	177.3	0.933	350	10.84	34.27	26.256	177.3	0.933
400	9.86	34.20	26.372	166.3	1.034	400	9.82	34.19	26.371	166.4	1.023	400	9.82	34.19	26.371	166.4	1.023
450	8.78	34.12	26.485	155.6	1.119	450	8.75	34.13	26.498	154.4	1.107	450	8.75	34.13	26.498	154.4	1.107
500	7.89	34.08	26.590	145.7	1.198	500	7.71	34.06	26.600	144.7	1.186	500	7.71	34.06	26.600	144.7	1.186
550	6.78	34.03	26.707	134.5	1.272	550	6.66	34.02	26.715	133.7	1.260	550	6.66	34.02	26.715	133.7	1.260
600	5.78	34.02	26.829	123.0	1.340	600	5.77	34.03	26.838	122.1	1.247	600	5.77	34.03	26.838	122.1	1.247
650	5.06	34.05	26.938	112.6	1.403	650	5.06	34.05	26.938	112.6	1.390	650	5.06	34.05	26.938	112.6	1.390
700	4.73	34.11	27.023	104.5	1.461	700	4.72	34.11	27.024	104.4	1.447	700	4.72	34.11	27.024	104.4	1.447
750	4.40	34.16	27.099	97.3	1.515	750	4.44	34.10	27.095	97.8	1.502	750	4.44	34.10	27.095	97.8	1.502
800	4.25	34.22	27.163	91.3	1.566	800	4.28	34.24	27.175	90.1	1.552	800	4.28	34.24	27.175	90.1	1.552
850	4.12	34.28	27.224	85.5	1.614	850	4.14	34.28	27.222	85.7	1.600	850	4.14	34.28	27.222	85.7	1.600
900	3.96	34.33	27.280	80.2	1.659	900	3.96	34.33	27.280	80.2	1.645	900	3.96	34.33	27.280	80.2	1.645
950	3.79	34.37	27.329	75.5	1.702	950	3.80	34.36	27.320	76.4	1.689	950	3.80	34.36	27.320	76.4	1.689
1000	3.68	34.40	27.364	72.2	1.743	1000	3.67	34.40	27.365	72.1	1.730	1000	3.67	34.40	27.365	72.1	1.730

STD70U						INDOPAC LEG XV						STD 71					
LATITUDE	LONGITUDE	MO/DAY/YR	START TIME			LATITUDE	LONGITUDE	MO/DAY/YR	START TIME			LATITUDE	LONGITUDE	MO/DAY/YR	START TIME		
28 41.0N	155 21.6W	06/27/77	0023 GMT			28 40.9N	155 21.5W	06/27/77	0054 GMT			28 40.9N	155 21.5W	06/27/77	0054 GMT		
Z	T	S	SIGMA T	DT	DD	Z	T	S	SIGMA T	DT	DD	Z	T	S	SIGMA T	DT	DD
0	24.74	35.32	23.682	422.2	0.000	0	24.74	35.32	23.682	422.2	0.000	0	24.74	35.32	23.682	422.2	0.000
10	24.67	35.33	23.711	419.5	0.042	10	24.73	35.32	23.685	421.9	0.042	10	24.73	35.32	23.685	421.9	0.042
20	24.61	35.34	23.737	417.1	0.084	20	24.63	35.32	23.716	419.1	0.084	20	24.63	35.32	23.716	419.1	0.084
30	23.84	35.34	23.966	395.2	0.125	30	24.08	35.36	23.910	400.5	0.125	30	24.08	35.36	23.910	400.5	0.125
40	22.71	35.36	24.309	362.4	0.163	40	23.00	35.28	24.166	376.1	0.164	40	23.00	35.28	24.166	376.1	0.164
50	22.03	35.30	24.457	348.4	0.198	50	22.16	35.27	24.397	354.0	0.201	50	22.16	35.27	24.397	354.0	0.201
75	20.36	35.26	24.883	307.8	0.281	75	20.51	35.24	24.828	313.0	0.285	75	20.51	35.24	24.828	313.0	0.285
100	19.20	35.12	25.080	289.0	0.356	100	19.50	35.14	25.018	294.9	0.362	100	19.50	35.14	25.018	294.9	0.362
125	18.40	35.01	25.199	277.7	0.428	125	18.53	35.01	25.166	280.8	0.435	125	18.53	35.01	25.166	280.8	0.435
150	17.58	34.87	25.294	268.7	0.498	150	17.77	34.90	25.271	270.9	0.505	150	17.77	34.90	25.271	270.9	0.505
175	16.29	34.68	25.454	253.5	0.564	175	16.58	34.70	25.402	258.5	0.572	175	16.58	34.70	25.402	258.5	0.572
200	15.65	34.63	25.561	243.3	0.628	200	15.80	34.62	25.520	247.2	0.637	200	15.80	34.62	25.520	247.2	0.637
225	14.56	34.49	25.694	230.7	0.689	225	14.76	34.52	25.673	232.6	0.699	225	14.76	34.52	25.673	232.6	0.699
250	13.34	34.39	25.872	213.8	0.746	250	13.53	34.38	25.825	218.2	0.757	250	13.53	34.38	25.825	218.2	0.757
275	12.48	34.32	25.989	202.7	0.800	275	12.63	34.33	25.967	204.8	0.811	275	12.63	34.33	25.967	204.8	0.811
300	11.94	34.32	26.093	192.8	0.851	300	12.02	34.31	26.070	195.0	0.863	300	12.02	34.31	26.070	195.0	0.863
350	10.95	34.27	26.237	179.2	0.948	350	11.02	34.27	26.224	180.4	0.961	350	11.02	34.27	26.224	180.4	0.961
400	9.88	34.20	26.369	166.6	1.038	400	10.10	34.21	26.339	169.4	1.052	400	10.10	34.21	26.339	169.4	1.052
450	8.74	34.12	26.492	155.0	1.123	450	8.84	34.12	26.476	156.5	1.138	450	8.84	34.12	26.476	156.5	1.138
500	7.70	34.06	26.602	144.5	1.202	500	7.78	34.06	26.590	145.6	1.218	500	7.78	34.06	26.590	145.6	1.218
550	6.63	34.02	26.719	133.4	1.275	550	6.64	34.02	26.718	133.5	1.291	550	6.64	34.02	26.718	133.5	1.291
600	5.76	34.03	26.839	122.0	1.343	600	5.77	34.02	26.830	122.9	1.359	600	5.77	34.02	26.830	122.9	1.359
650	5.12	34.06	26.939	112.5	1.405	650	5.20	34.04	26.914	114.9	1.422	650	5.20	34.04	26.914	114.9	1.422
700	4.72	34.11	27.024	104.4	1.463	700	4.76	34.11	27.020	104.9	1.481	700	4.76	34.11	27.020	104.9	1.481
750	4.42	34.17	27.105	96.8	1.517	750	4.43	34.15	27.088	98.4	1.535	750	4.43	34.15	27.088	98.4	1.535
800	4.27	34.23	27.168	90.8	1.567	800	4.29	34.23	27.166	91.0	1.586	800	4.29	34.23	27.166	91.0	1.586
850	4.14	34.28	27.222	85.7	1.615	850	4.14	34.28	27.222	85.7	1.634	850	4.14	34.28	27.222	85.7	1.634
900	3.95	34.33	27.281	80.1	1.661	900	3.97	34.33	27.279	80.3	1.680	900	3.97	34.33	27.279	80.3	1.680
950	3.78	34.36	27.322	76.2	1.704	950	3.79	34.36	27.321	76.3	1.723	950	3.79	34.36	27.321	76.3	1.723
1000	3.67	34.40	27.365	72.1	1.745	1000	3.66	34.40	27.366	72.0	1.764	1000	3.66	34.40	27.366	72.0	1.764

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STC 73

LATITUDE		LONGITUDE		MO/DAY/YR		START TIME		LATITUDE		LONGITUDE		MO/DAY/YR		START TIME	
28 41.1N		155 21.7W		06/27/77		0143 GMT		28 41.2N		155 21.8W		06/27/77		0210 GMT	
Z	T	S	SIGMA	T	DT	DD		Z	T	S	SIGMA	T	DT	DD	
0	24.77	35.33	23.681	422.4	0.000			0	24.80	35.34	23.679	422.5	0.000		
10	24.73	35.33	23.693	421.2	0.042			10	24.77	35.34	23.688	421.7	0.042		
20	24.65	35.33	23.717	418.9	0.084			20	24.73	35.34	23.700	420.5	0.084		
30	24.12	35.28	23.838	407.4	0.126			30	24.26	35.34	23.842	407.0	0.126		
40	23.20	35.31	24.131	379.5	0.165			40	23.53	35.29	24.019	390.1	0.166		
50	22.34	35.30	24.369	356.7	0.202			50	22.50	35.31	24.332	360.3	0.204		
75	20.72	35.21	24.749	320.6	0.287			75	20.92	35.24	24.717	323.6	0.290		
100	19.58	35.16	25.012	295.5	0.365			100	19.60	35.15	25.000	296.7	0.368		
125	18.60	35.02	25.157	281.6	0.438			125	18.58	35.02	25.162	281.3	0.441		
150	17.95	34.93	25.250	272.9	0.509			150	17.88	34.92	25.259	272.0	0.511		
175	16.89	34.75	25.367	261.7	0.577			175	16.76	34.73	25.383	260.3	0.579		
200	15.86	34.63	25.514	247.6	0.642			200	15.83	34.63	25.521	247.2	0.644		
225	14.86	34.53	25.639	234.0	0.704			225	14.68	34.52	25.691	231.0	0.706		
250	13.68	34.43	25.833	217.5	0.762			250	13.74	34.42	25.813	219.4	0.764		
275	12.70	34.33	25.953	206.1	0.817			275	12.85	34.34	25.931	208.2	0.819		
300	12.13	34.32	26.056	196.3	0.869			300	12.18	34.32	26.047	197.2	0.871		
350	10.99	34.27	26.229	179.9	0.967			350	11.18	34.28	26.203	182.4	0.970		
400	9.99	34.20	26.350	168.4	1.058			400	10.14	34.21	26.332	170.1	1.062		
450	8.78	34.12	26.485	155.6	1.143			450	9.06	34.14	26.457	158.3	1.149		
500	7.75	34.06	26.594	145.2	1.222			500	7.84	34.06	26.581	146.5	1.229		
550	6.67	34.02	26.714	133.9	1.296			550	6.76	34.03	26.710	134.3	1.303		
600	5.80	34.02	26.826	123.2	1.364			600	5.87	34.03	26.825	123.3	1.372		
650	5.26	34.03	26.899	116.3	1.428			650	5.29	34.03	26.896	116.6	1.435		
700	4.77	34.10	27.011	105.7	1.487			700	4.76	34.06	26.996	107.1	1.495		
750	4.47	34.15	27.084	98.8	1.542			750	4.54	34.16	27.084	98.8	1.550		
800	4.28	34.22	27.159	91.6	1.593			800	4.31	34.23	27.164	91.2	1.601		
850	4.13	34.28	27.223	85.6	1.641			850	4.14	34.28	27.222	85.7	1.649		
900	3.96	34.33	27.280	80.2	1.687			900	3.98	34.33	27.279	80.4	1.695		
950	3.80	34.36	27.320	76.4	1.730			950	3.84	34.36	27.316	76.8	1.738		
1000	3.67	34.40	27.365	72.1	1.771			1000	3.69	34.41	27.371	71.6	1.779		

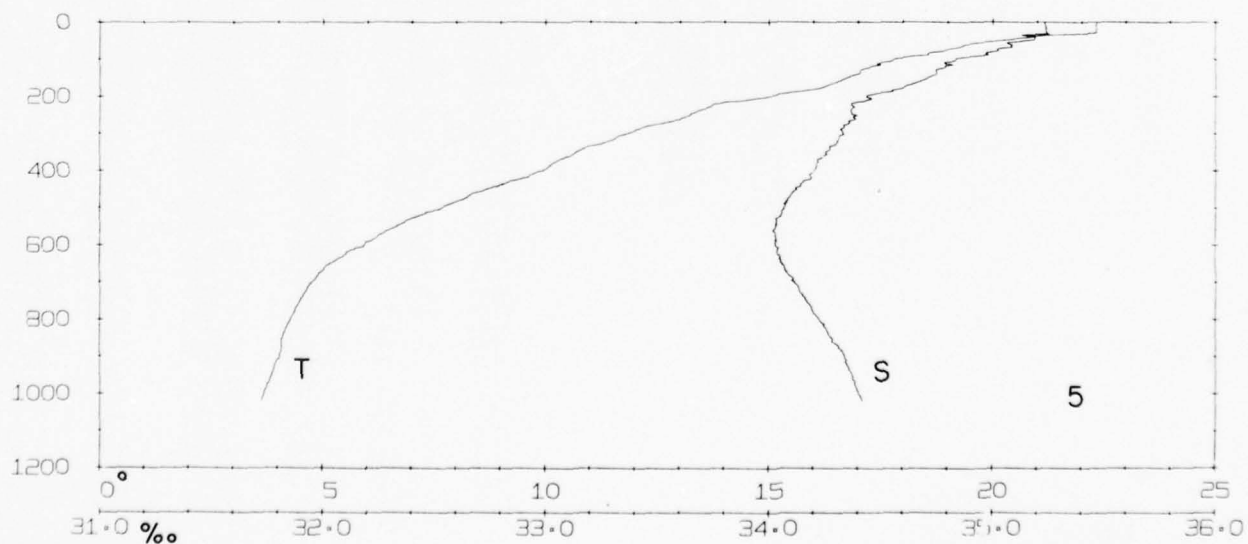
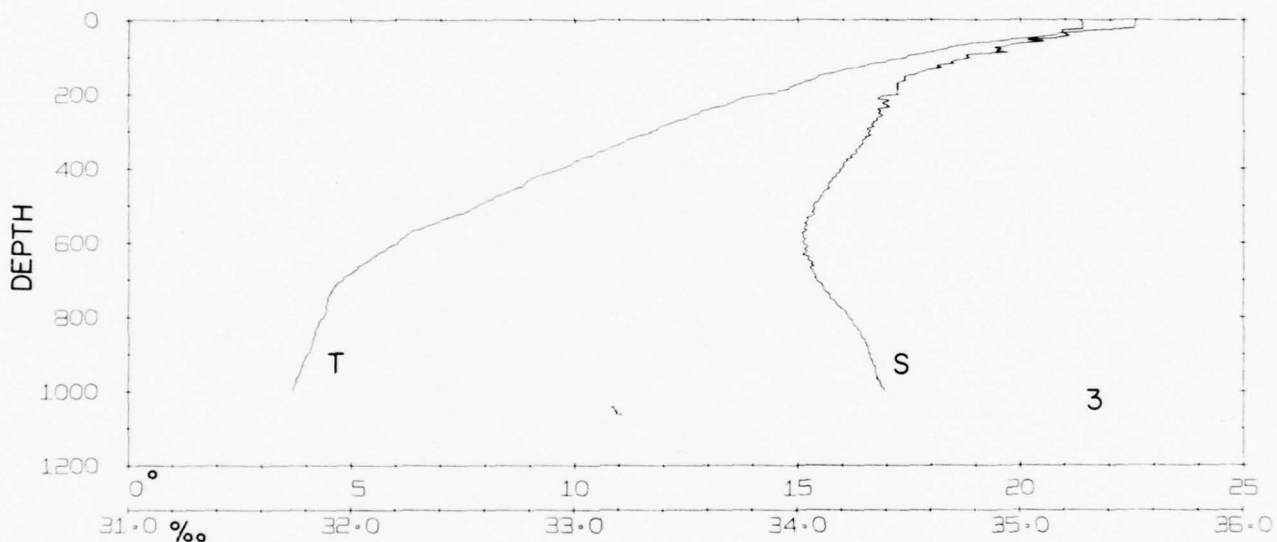
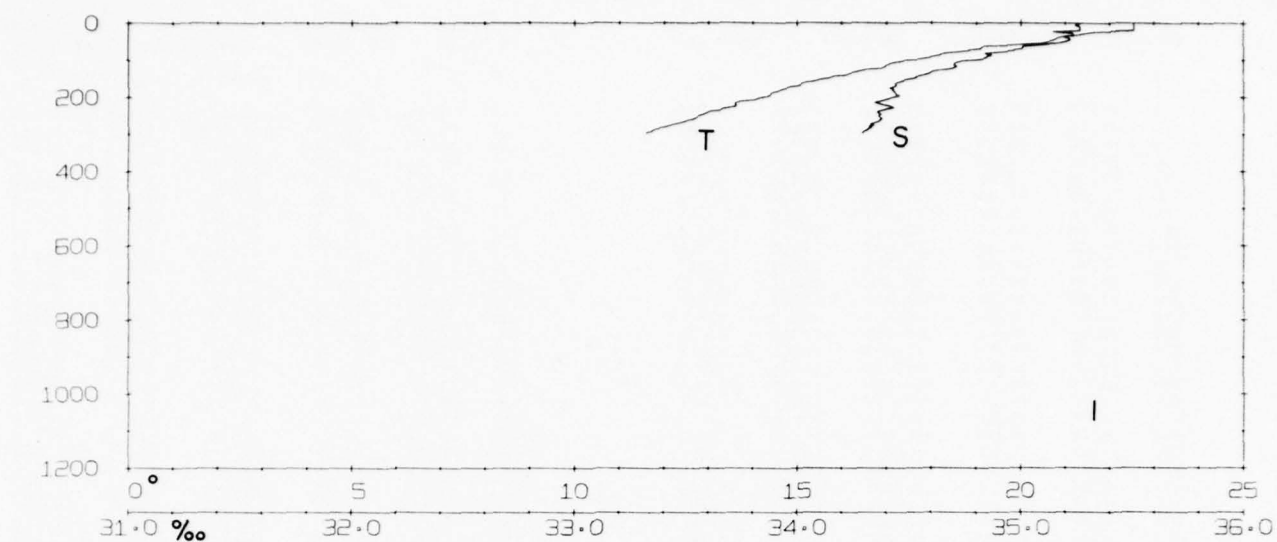
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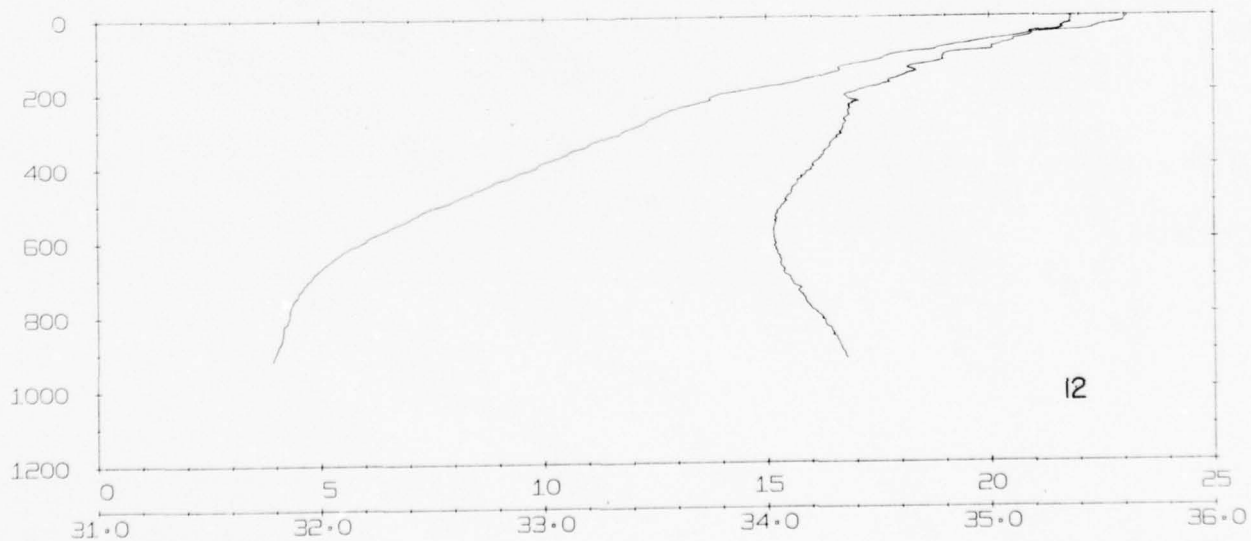
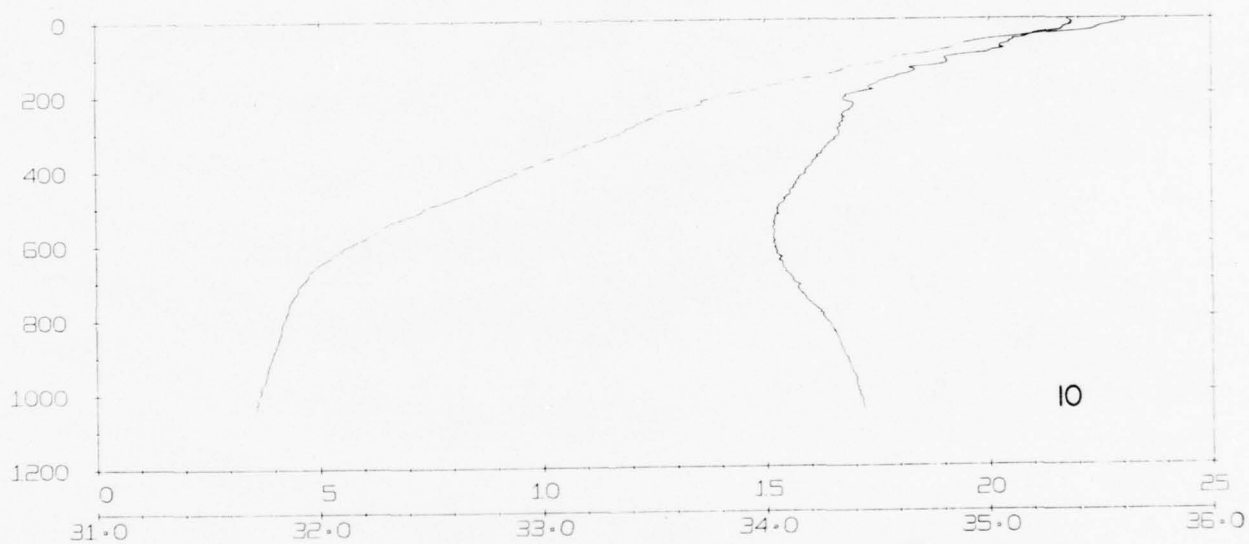
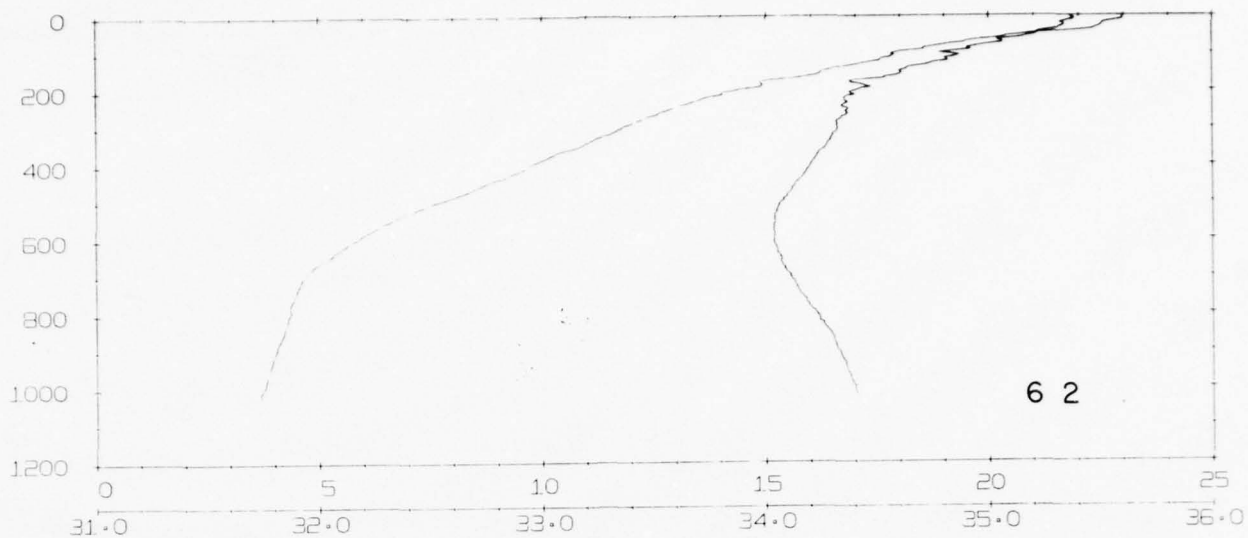
ST077U

LATITUDE			LONGITUDE			MO/DAY/YR			START TIME		
28 41.3N			155 21.9W			06/27/77			0233 GMT		
Z	T	S	SIGMA T	DT	DD	Z	T	S	SIGMA T	DT	DD
0	24.85	35.36	23.679	422.5	0.000	0	24.84	35.29	23.630	427.3	0.000
10	24.82	35.35	23.681	422.4	0.042	10	24.81	35.30	23.646	425.7	0.043
20	24.55	35.32	23.740	416.6	0.084	20	24.81	35.31	23.654	425.0	0.085
30	23.60	35.32	24.022	389.9	0.125	30	23.65	35.22	23.931	398.5	0.127
40	22.75	35.31	24.260	367.1	0.163	40	22.15	35.19	24.340	359.6	0.169
50	22.13	35.31	24.436	350.3	0.199	50	21.45	35.21	24.550	339.5	0.200
75	20.73	35.26	24.784	317.2	0.283	75	20.02	35.13	24.875	308.6	0.281
100	19.47	35.16	25.041	292.6	0.360	100	19.15	35.04	25.032	293.6	0.357
125	18.46	35.02	25.192	278.4	0.432	125	18.46	34.96	25.146	282.8	0.430
150	17.75	34.92	25.291	269.0	0.502	150	17.28	34.75	25.275	270.6	0.501
175	16.36	34.68	25.438	255.0	0.569	175	16.40	34.62	25.382	260.3	0.568
200	15.58	34.64	25.585	241.1	0.632	200	15.19	34.48	25.549	244.5	0.633
225	14.34	34.51	25.756	224.8	0.692	225	13.97	34.38	25.734	226.9	0.693
250	13.21	34.37	25.882	212.6	0.748	250	13.00	34.29	25.863	214.7	0.750
275	12.46	34.32	25.992	202.3	0.802	275	12.29	34.28	25.995	202.1	0.804
300	11.98	34.33	26.093	192.8	0.853	300	11.66	34.22	26.068	195.2	0.855
350	10.89	34.26	26.240	178.4	0.950	350	10.54	34.16	26.224	180.4	0.953
400	9.88	34.20	26.369	166.6	1.040	400	9.60	34.11	26.345	168.9	1.044
450	8.85	34.13	26.482	155.9	1.125	450	8.44	34.04	26.476	156.5	1.129
500	7.74	34.08	26.612	143.6	1.204	500	7.41	33.99	26.588	145.8	1.209
550	6.64	34.02	26.718	133.5	1.277	550	6.36	33.97	26.716	133.7	1.283
600	5.81	34.02	26.825	123.3	1.345	600	5.52	33.96	26.829	123.0	1.350
650	5.26	34.04	26.907	115.5	1.409	650	5.02	34.02	26.919	114.4	1.413
700	4.79	34.10	27.009	105.9	1.468	700	4.75	34.09	27.005	106.3	1.472
750	4.47	34.16	27.091	98.1	1.522	750	4.45	34.16	27.094	97.9	1.527
800	4.29	34.23	27.166	91.0	1.573	800	4.26	34.22	27.161	91.4	1.578
850	4.14	34.28	27.222	85.7	1.621	850	4.14	34.28	27.222	85.7	1.626
900	3.97	34.33	27.279	80.3	1.667	900	3.98	34.31	27.262	81.9	1.672
950	3.82	34.37	27.326	75.8	1.710	950	3.85	34.35	27.307	77.6	1.715
1000	3.69	34.41	27.371	71.6	1.751	1000	3.70	34.39	27.354	73.2	1.757
						1100	3.46	34.45	27.425	66.4	1.835
						1200	3.26	34.49	27.476	61.6	1.908
						1300	3.06	34.53	27.527	56.8	1.976
						1400	2.87	34.56	27.568	52.9	2.040
						1500	2.71	34.57	27.590	50.8	2.101
						1600	2.57	34.584	27.614	48.6	2.160
						1700	2.386	34.597	27.640	46.1	2.216
						1800	2.283	34.611	27.659	44.2	2.271
						1900	2.169	34.621	27.677	42.6	2.323
						2000	2.049	34.633	27.696	40.8	2.374
						2100	1.966	34.640	27.708	39.6	2.423
						2200	1.891	34.645	27.718	38.7	2.472
						2300	1.826	34.651	27.728	37.8	2.519
						2400	1.764	34.656	27.736	36.9	2.566
						2500	1.712	34.662	27.745	36.1	2.611
						2600	1.667	34.665	27.751	35.6	2.656
						2700	1.637	34.667	27.755	35.2	2.701
						2800	1.599	34.699	27.783	32.5	2.745

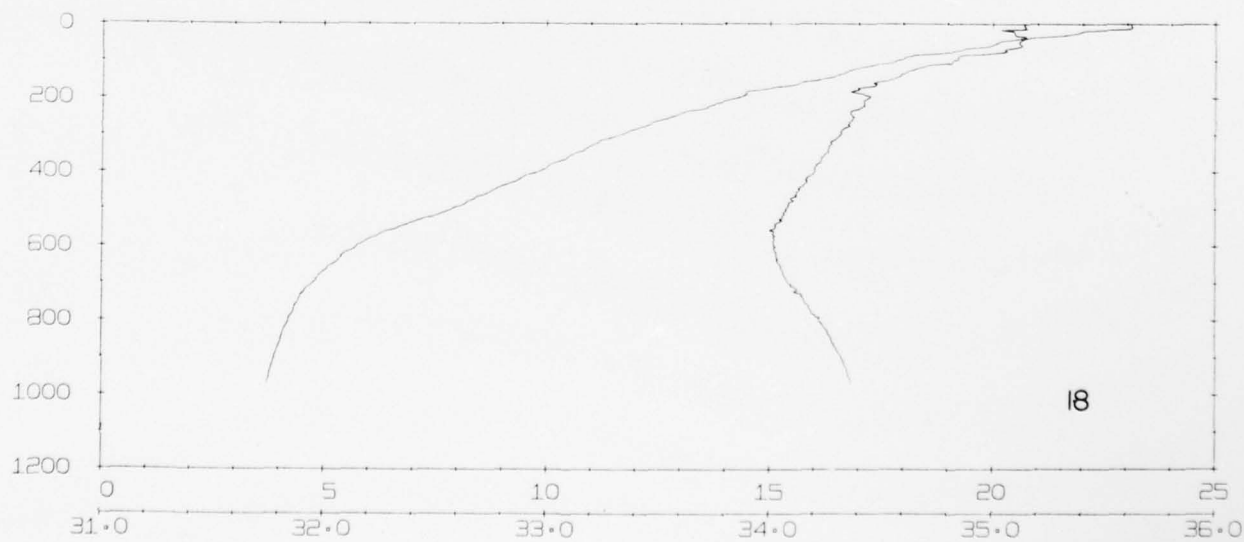
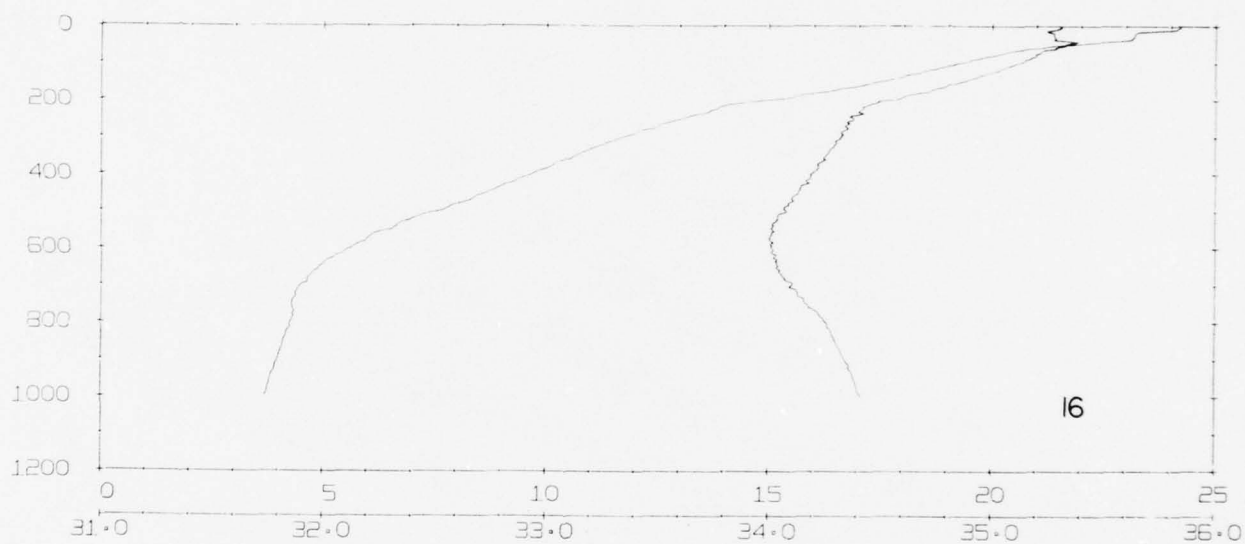
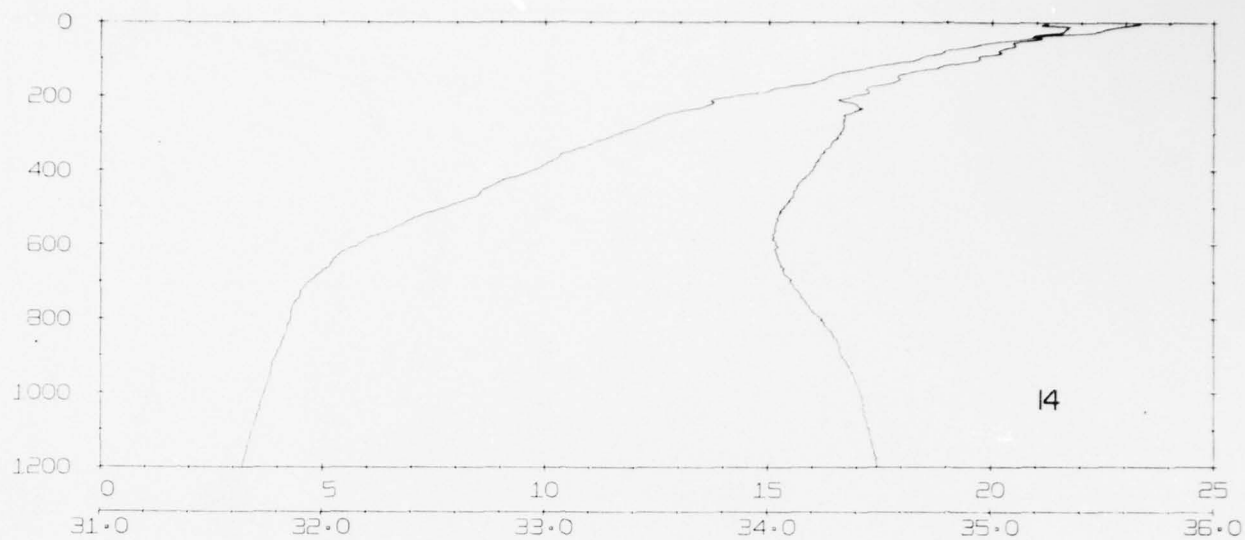
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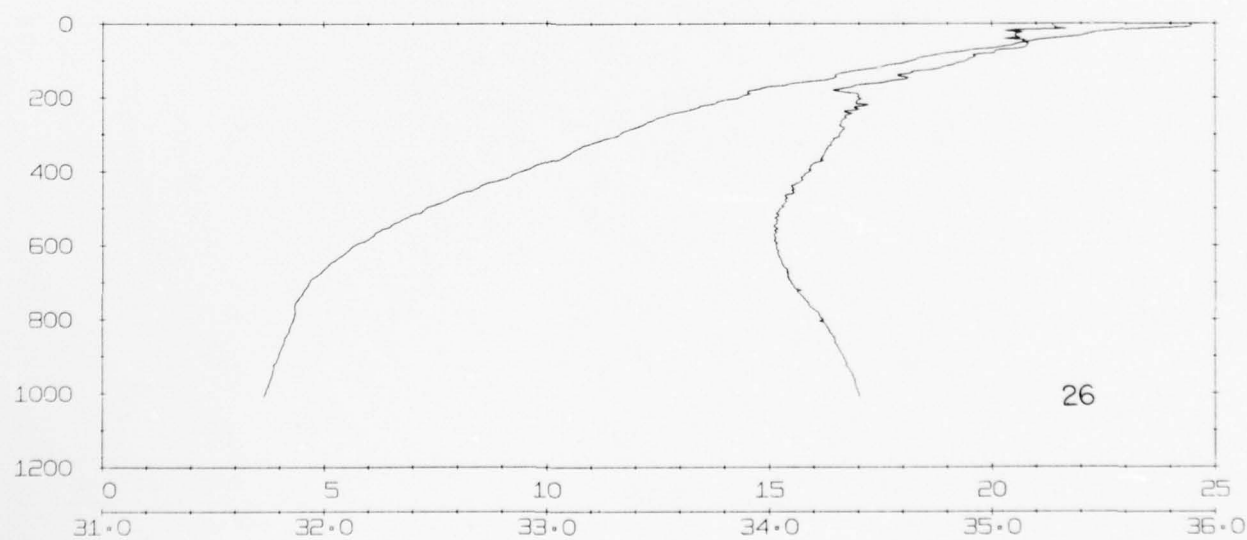
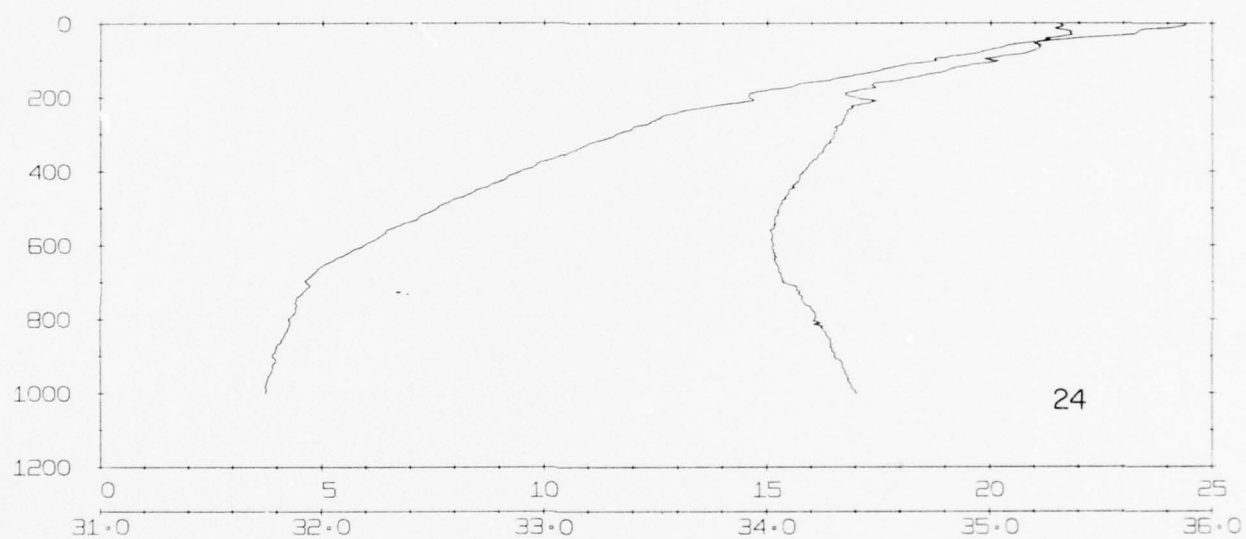
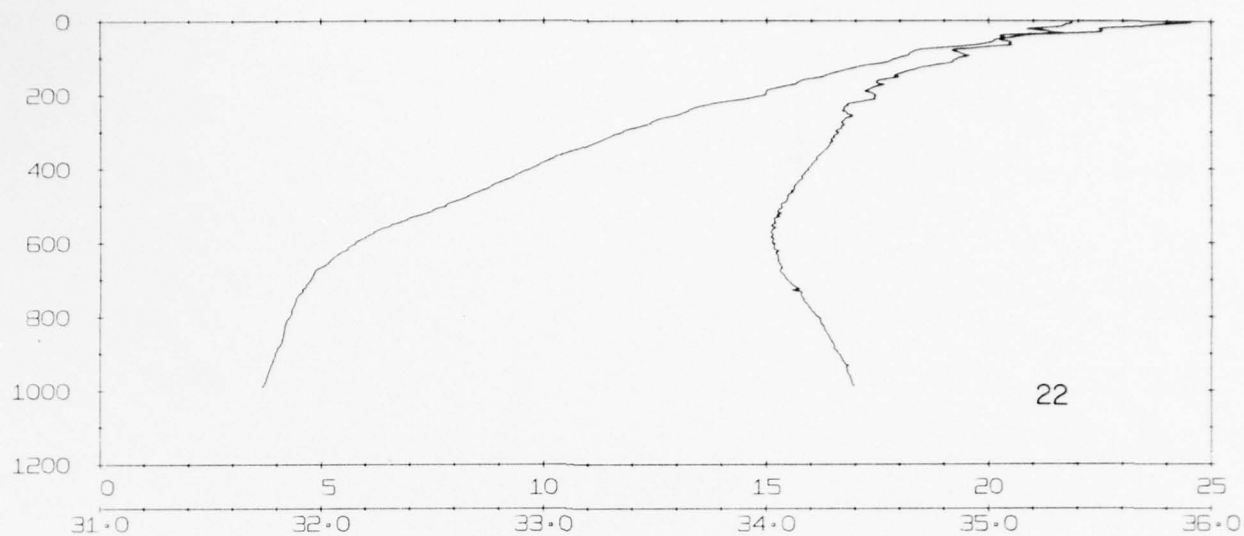
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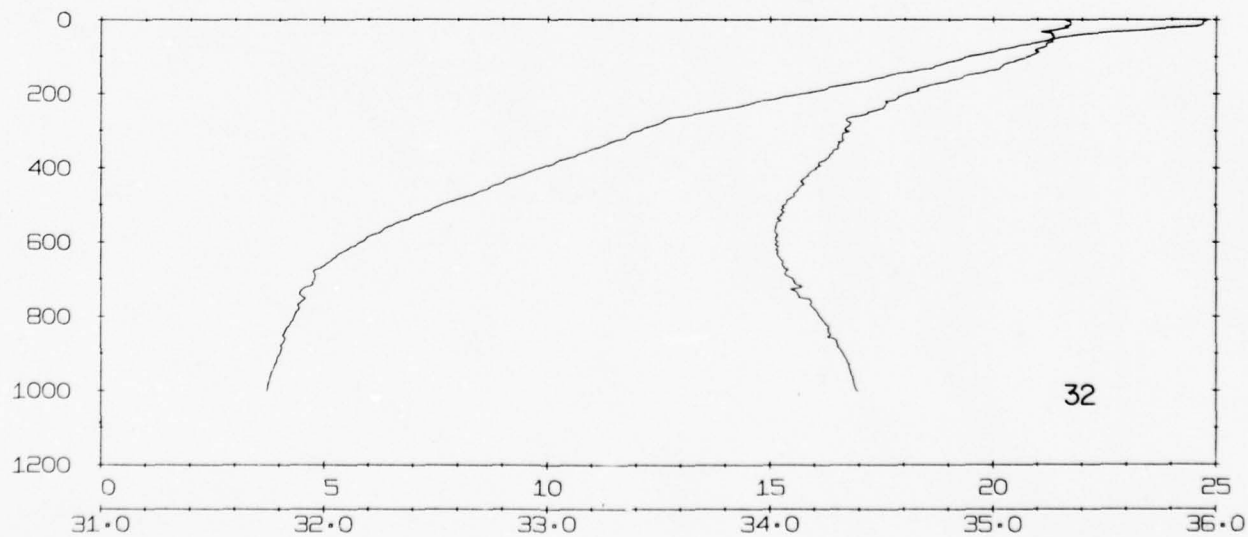
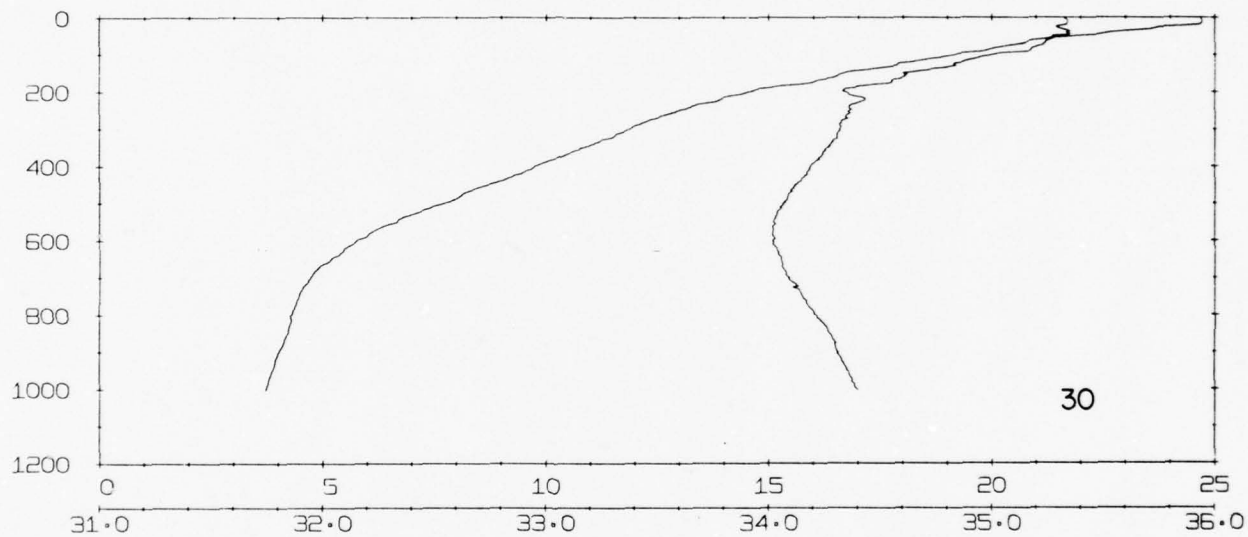
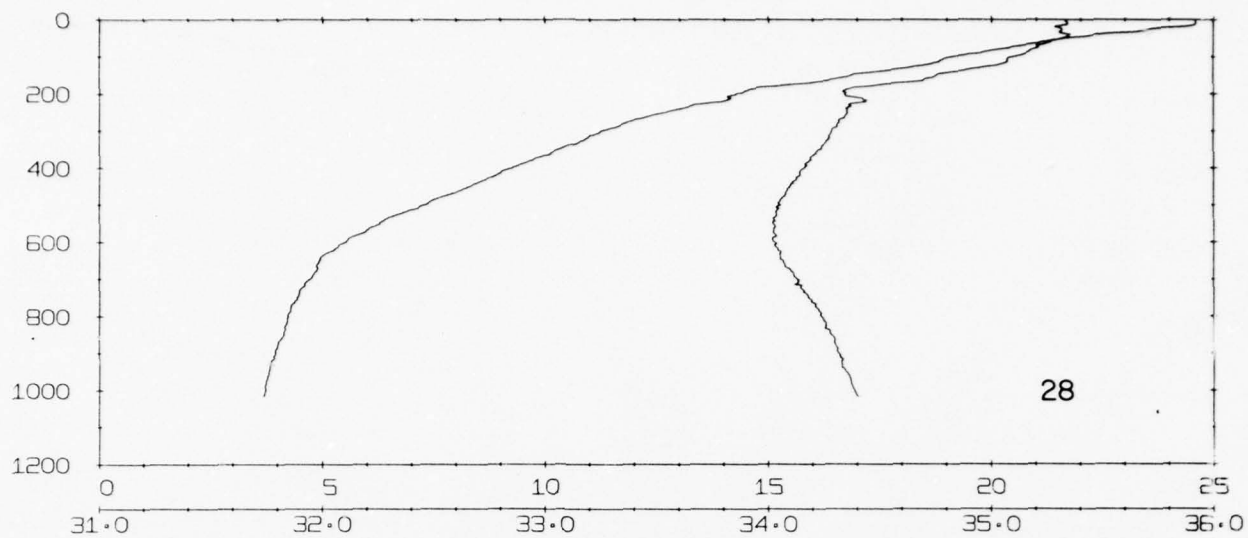
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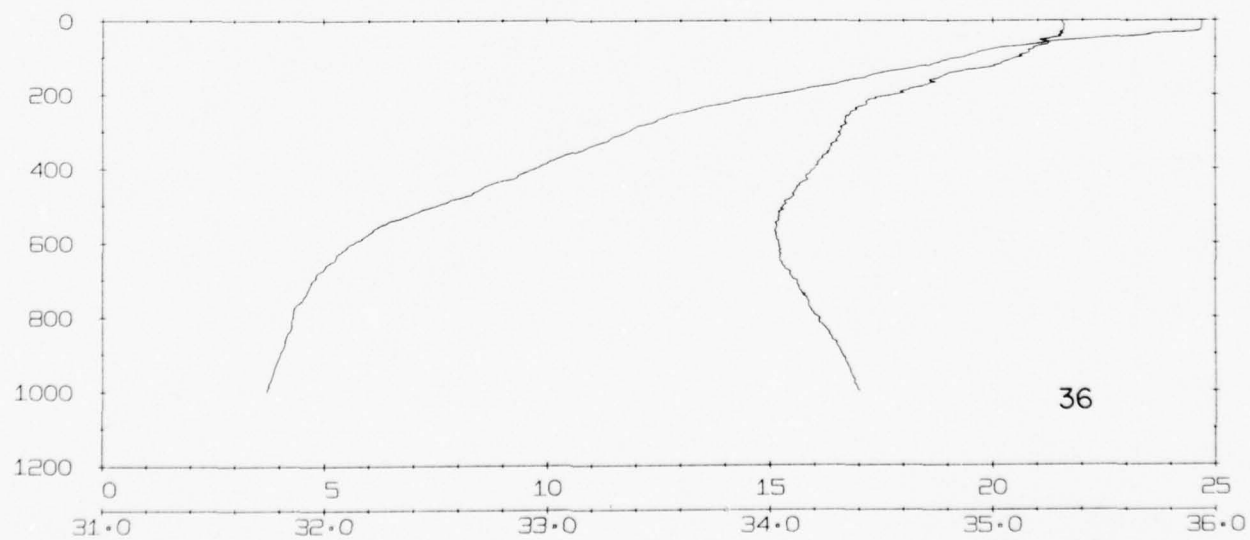
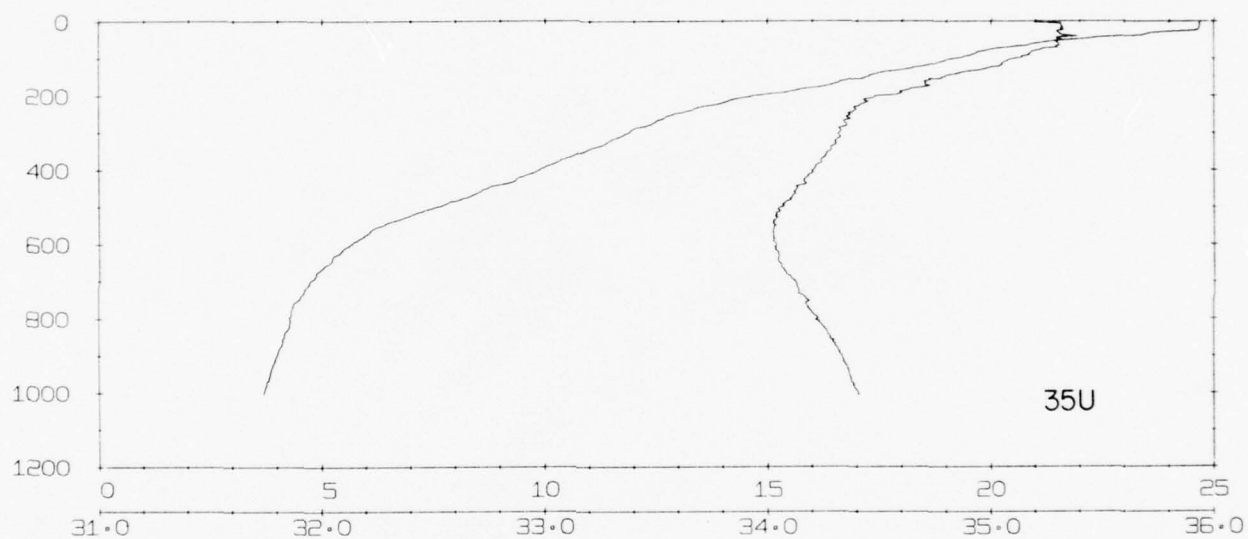
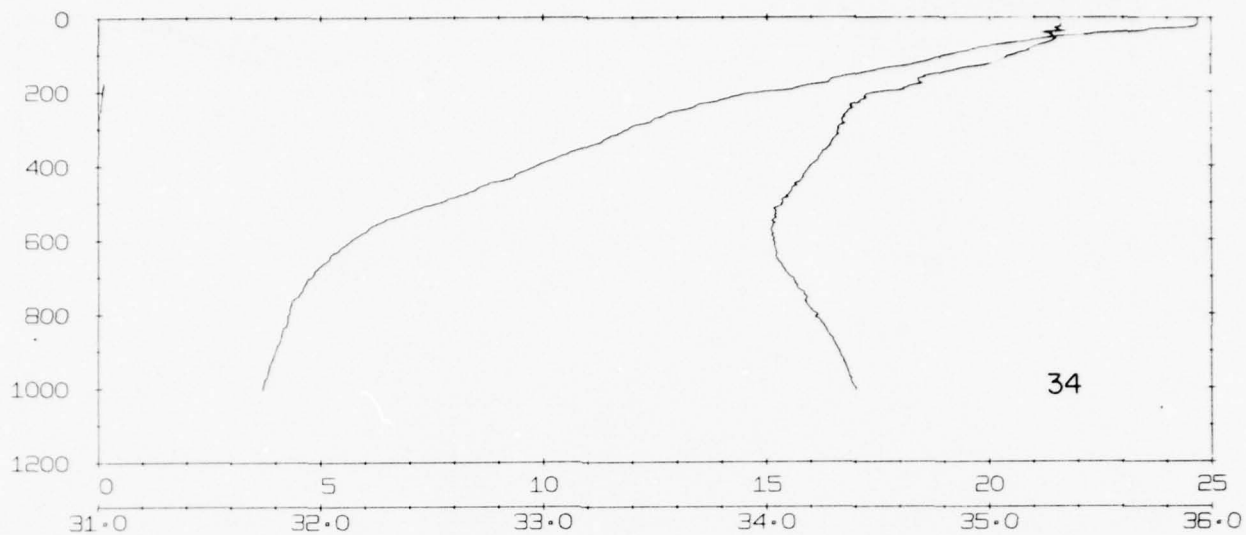
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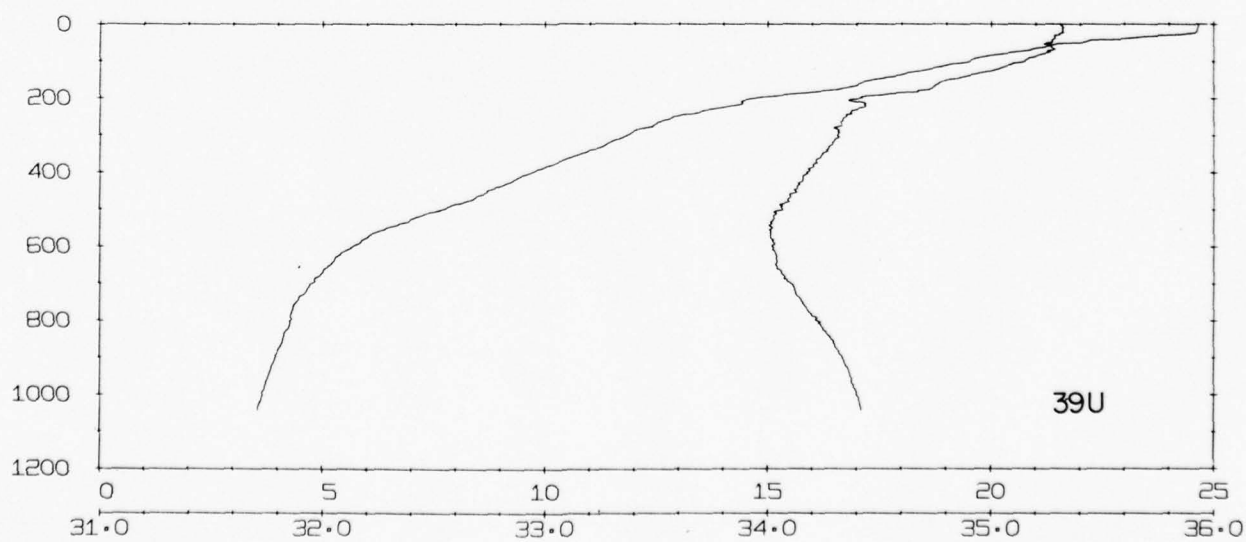
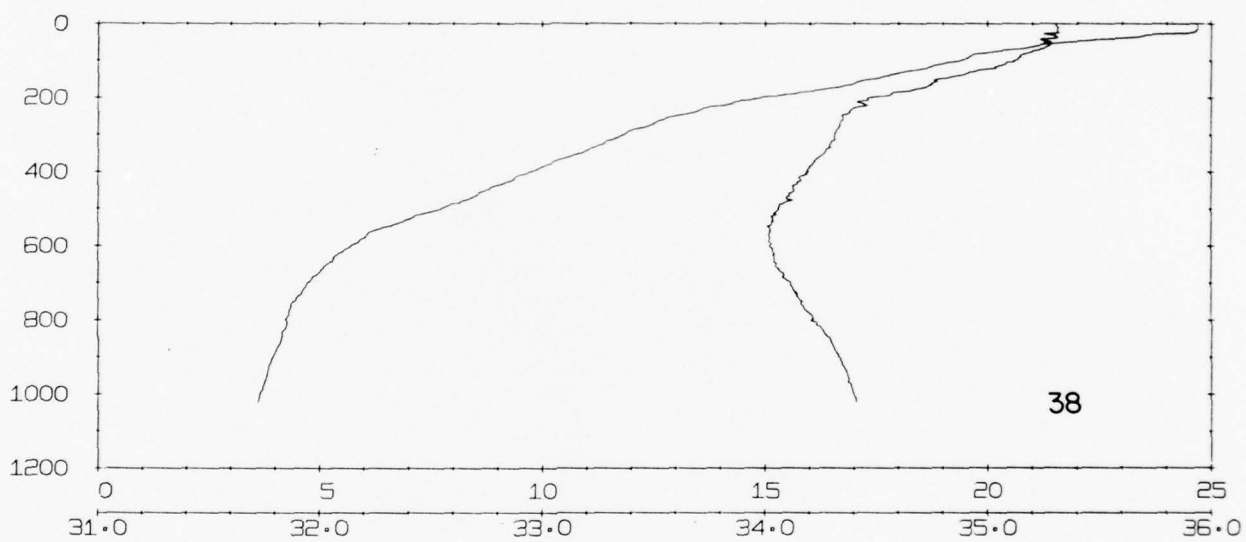
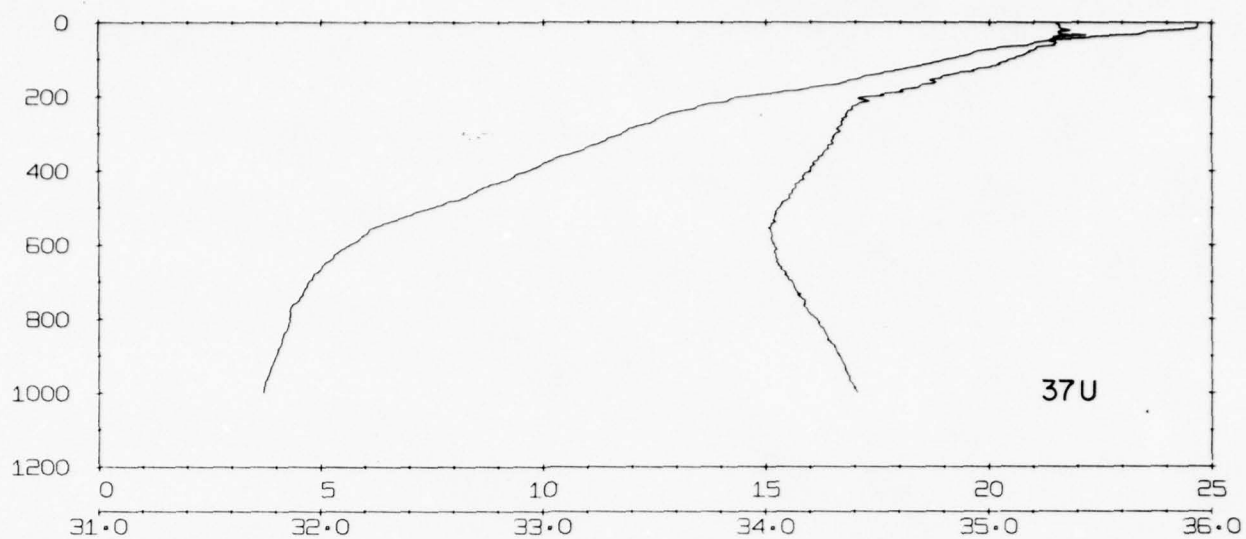
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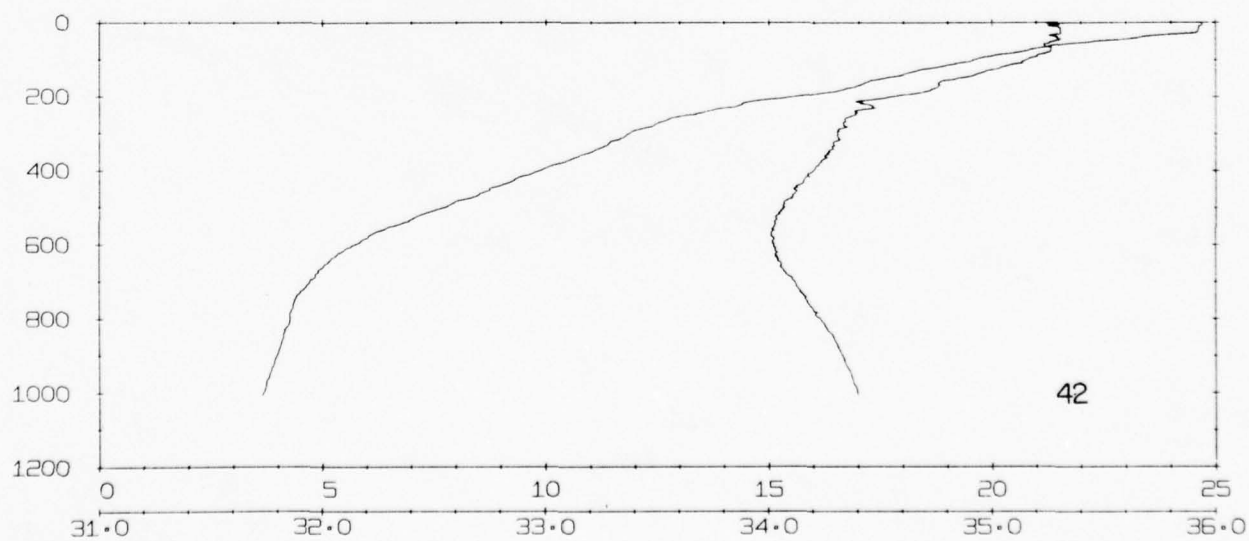
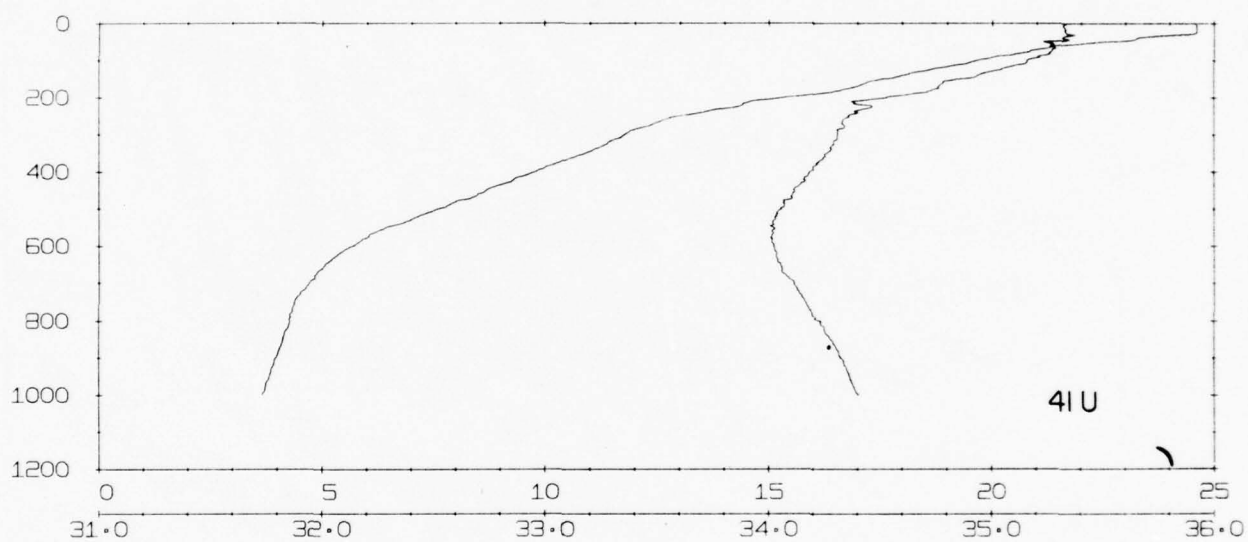
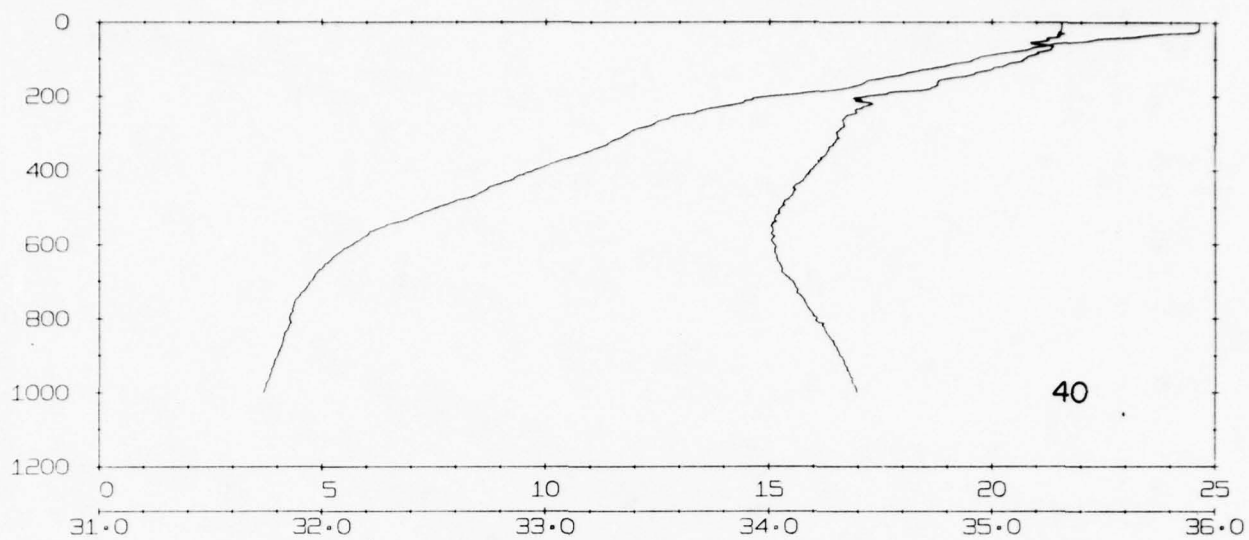
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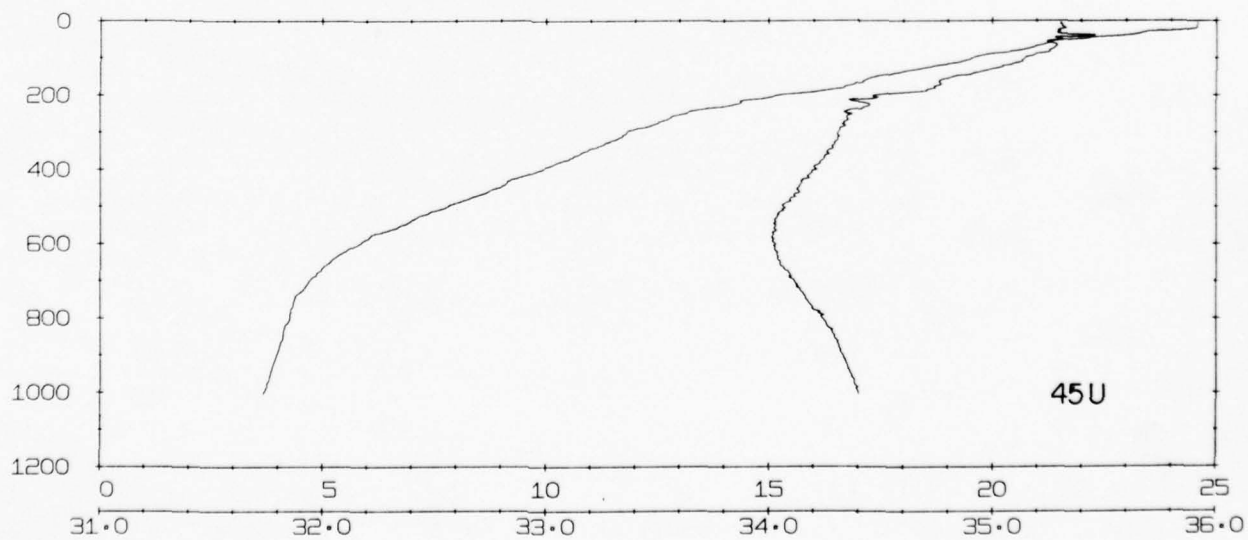
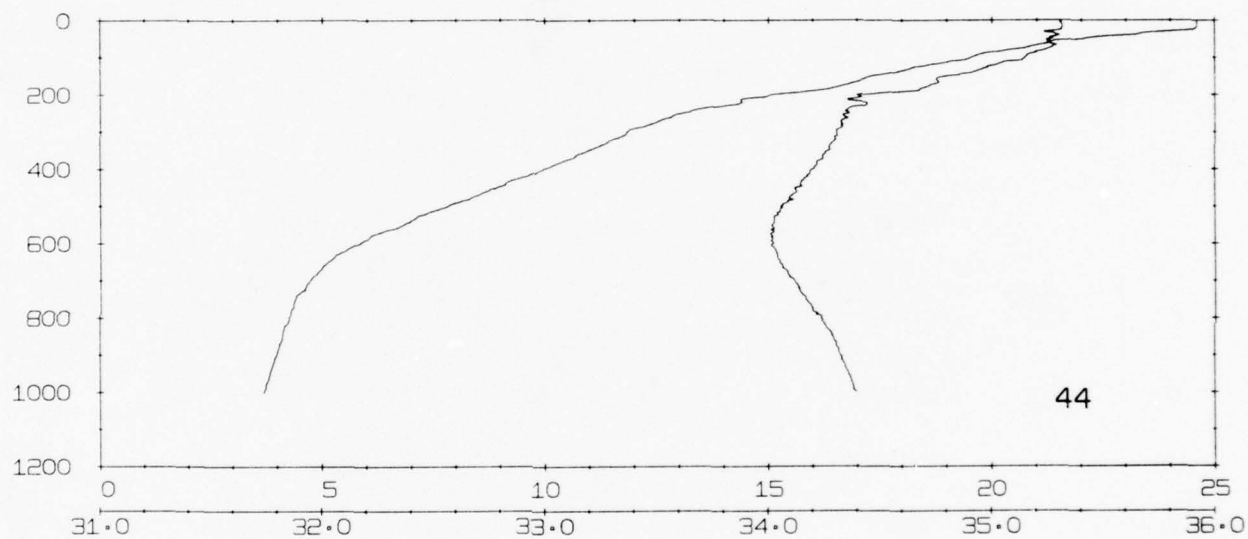
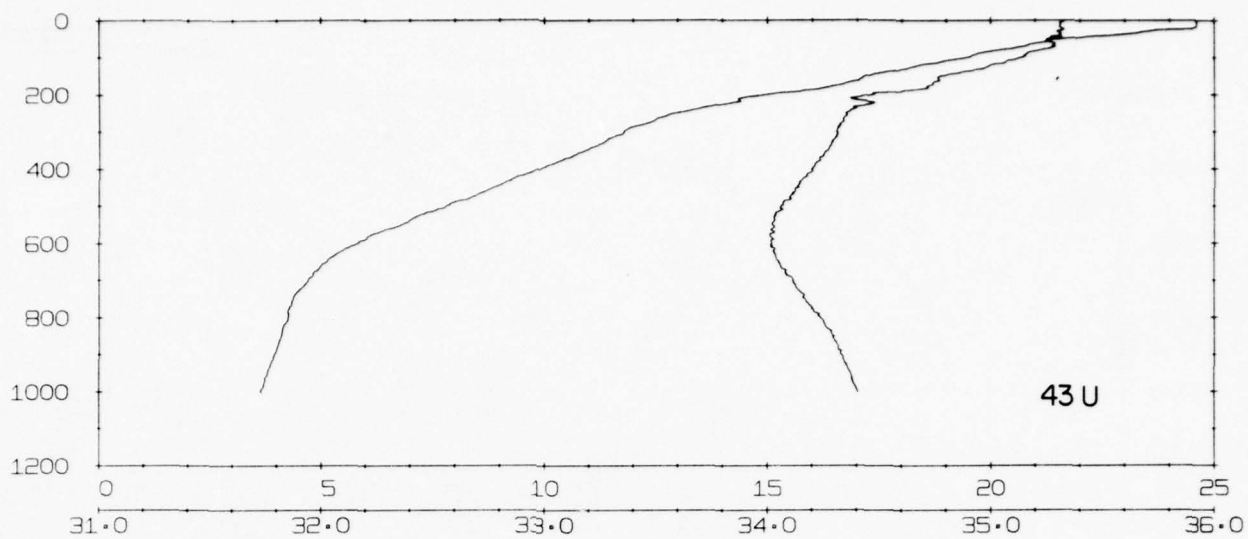
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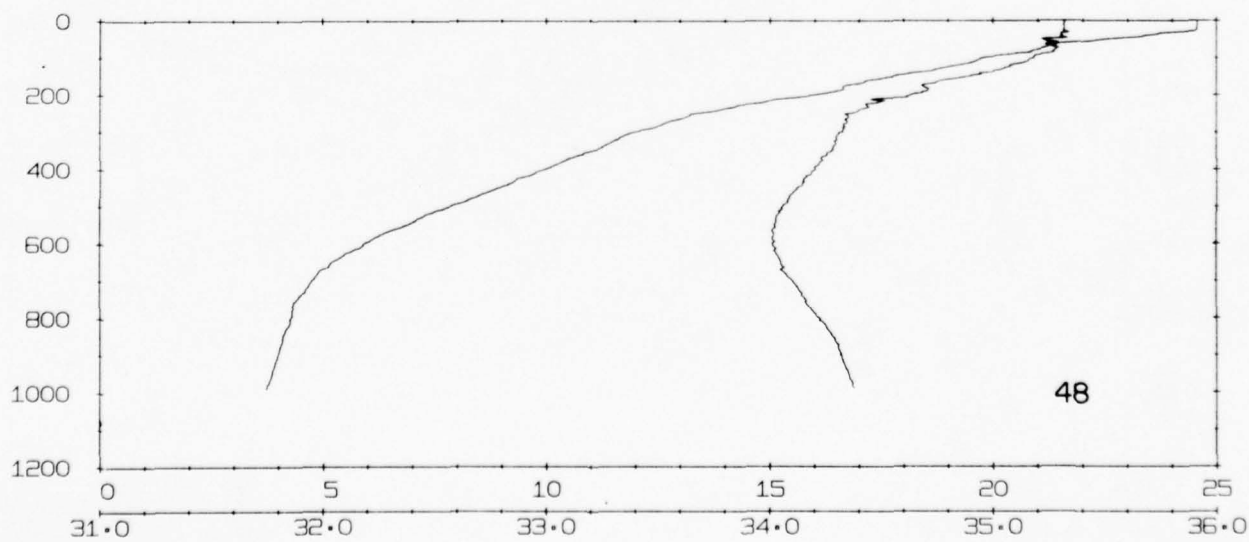
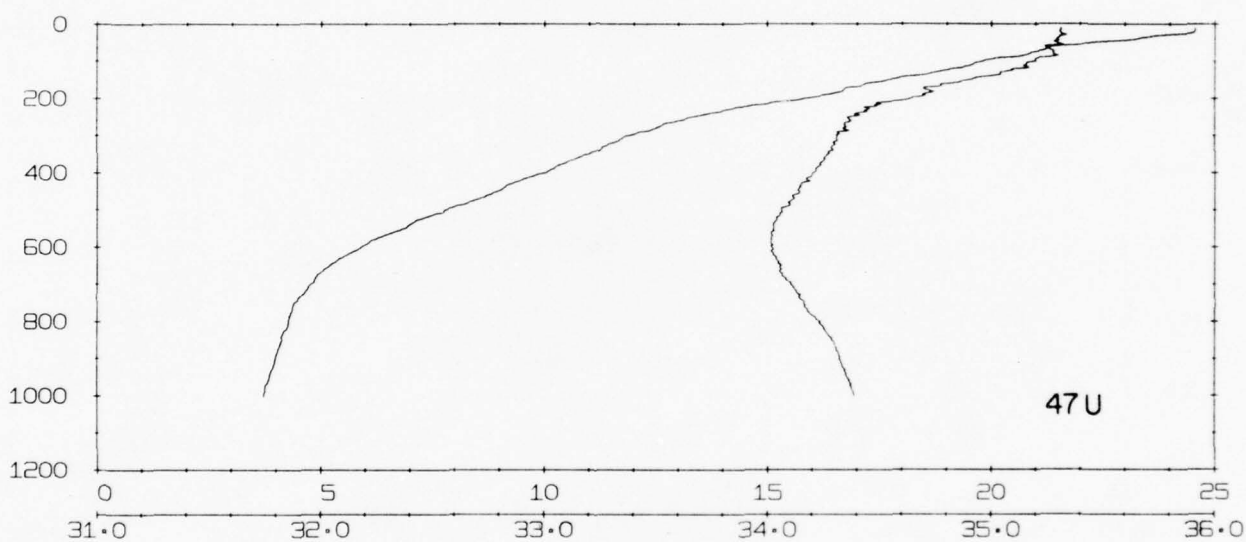
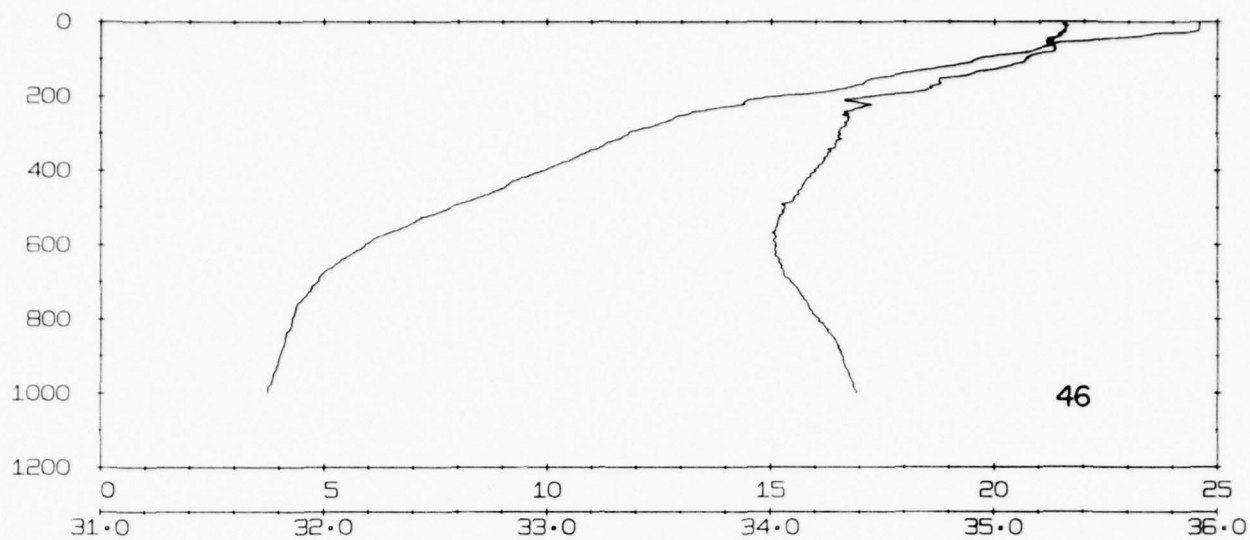
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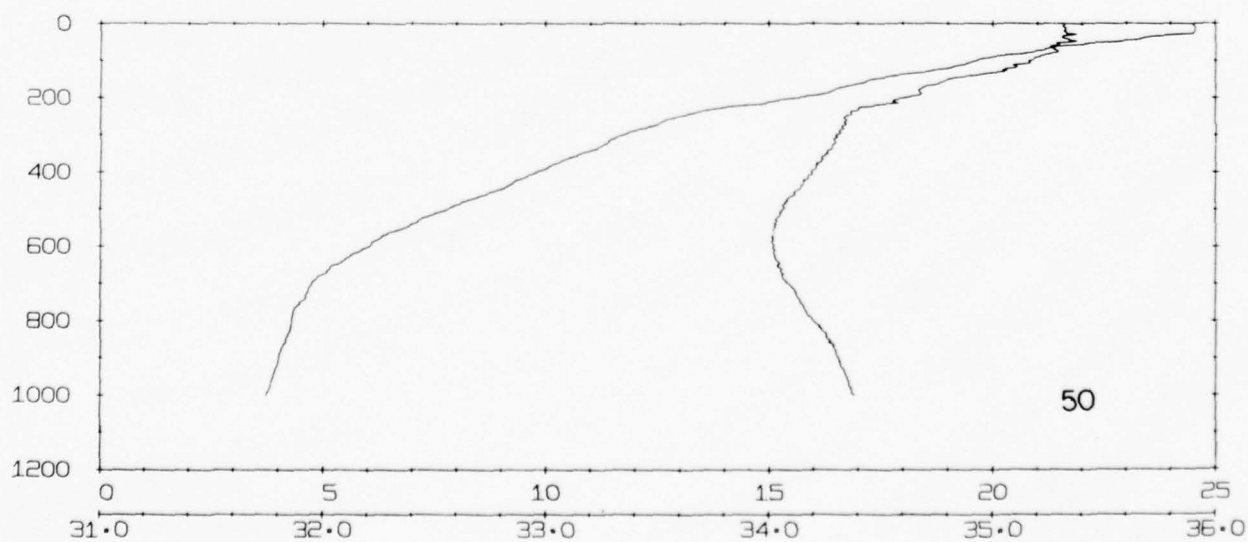
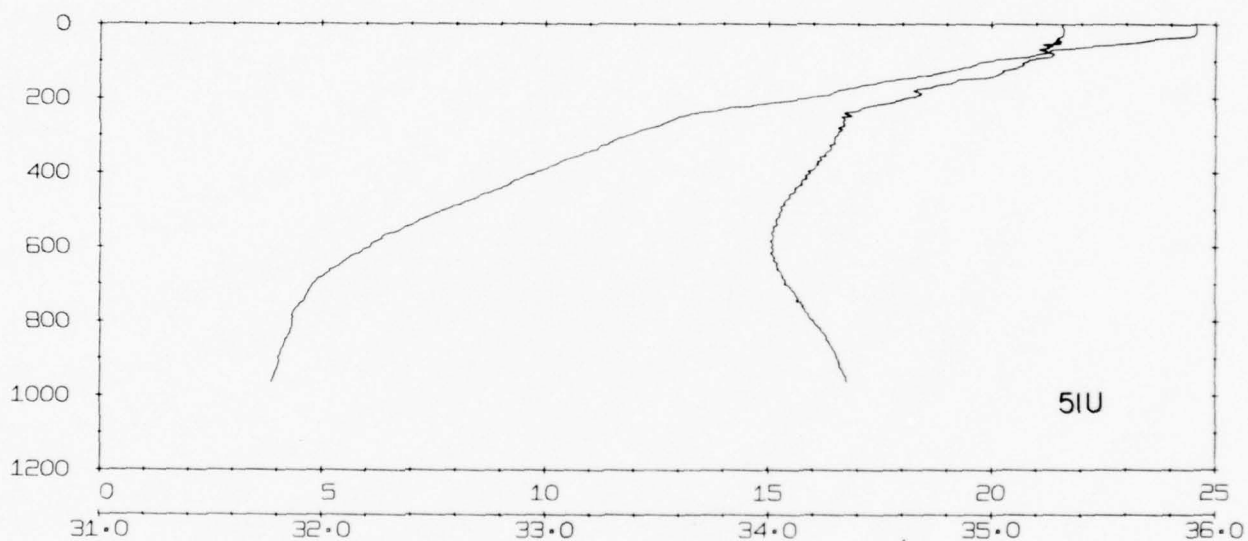
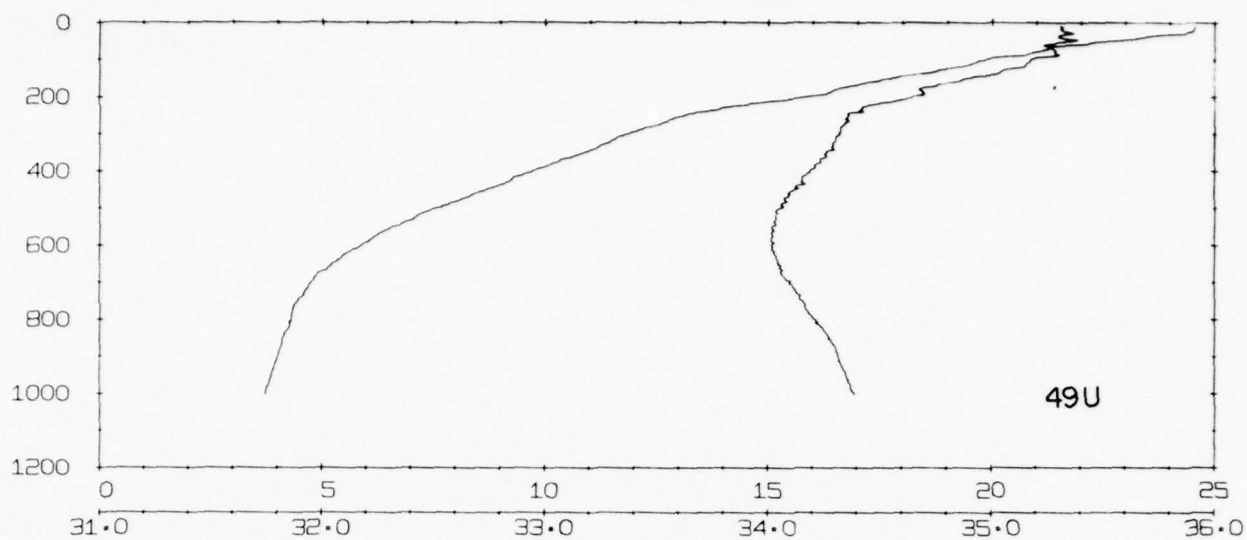
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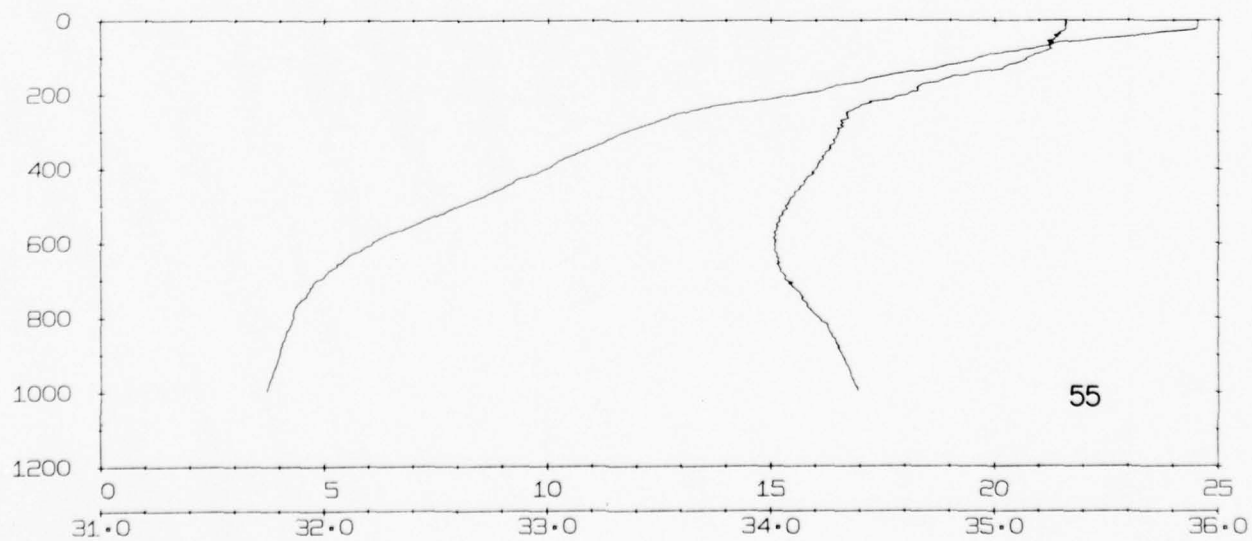
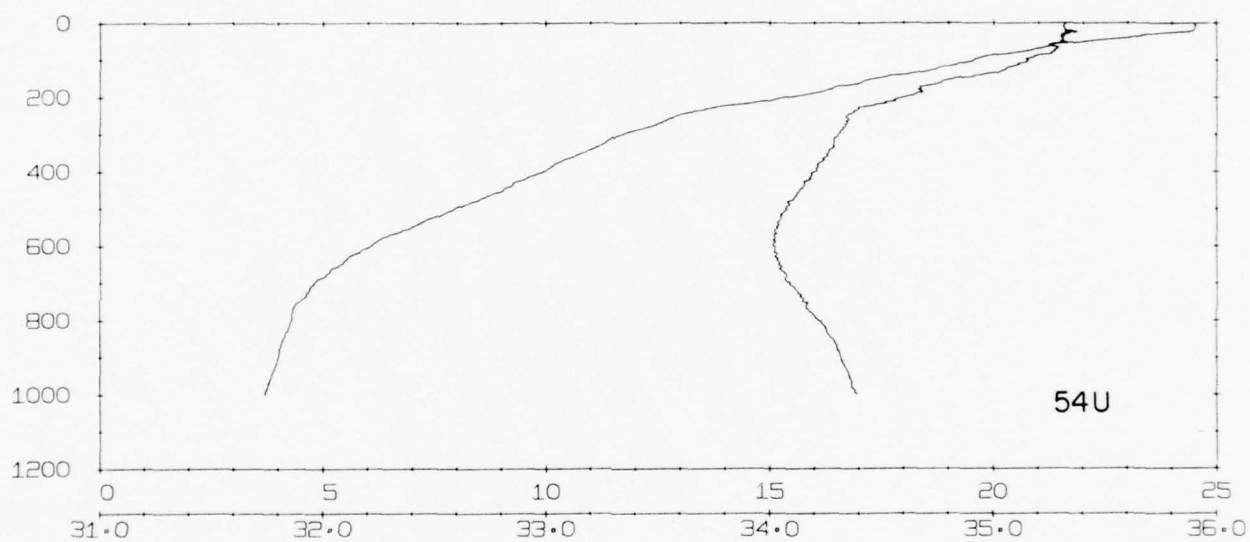
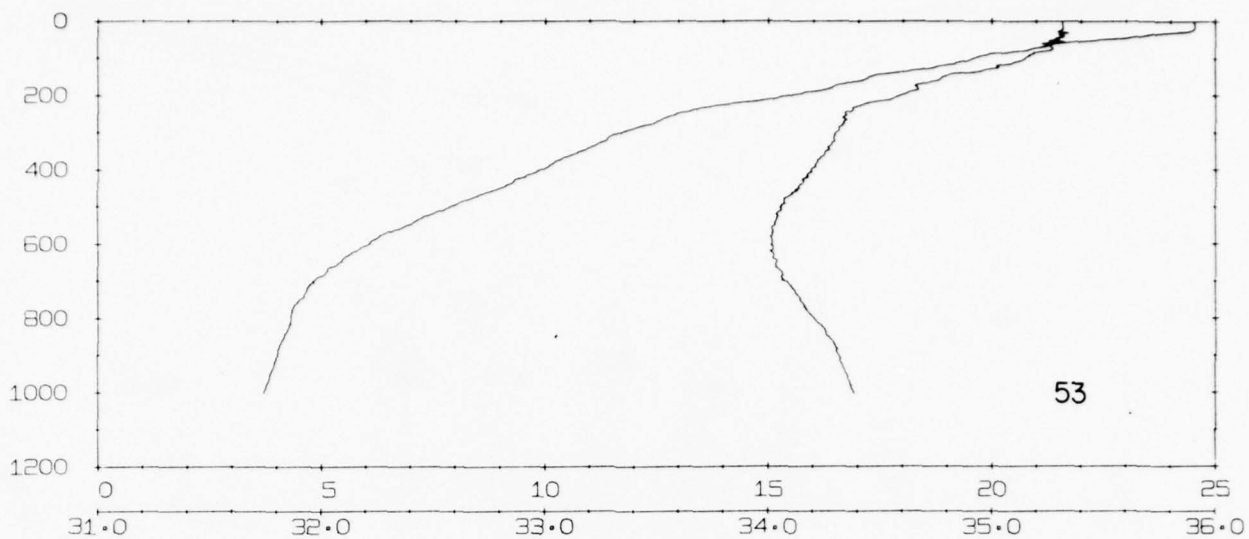
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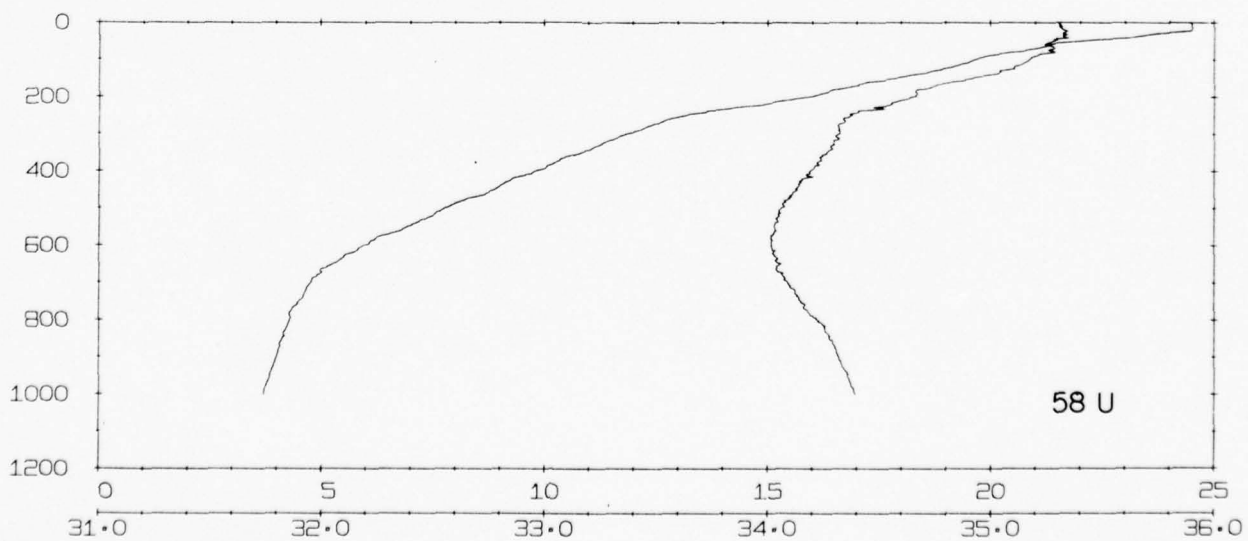
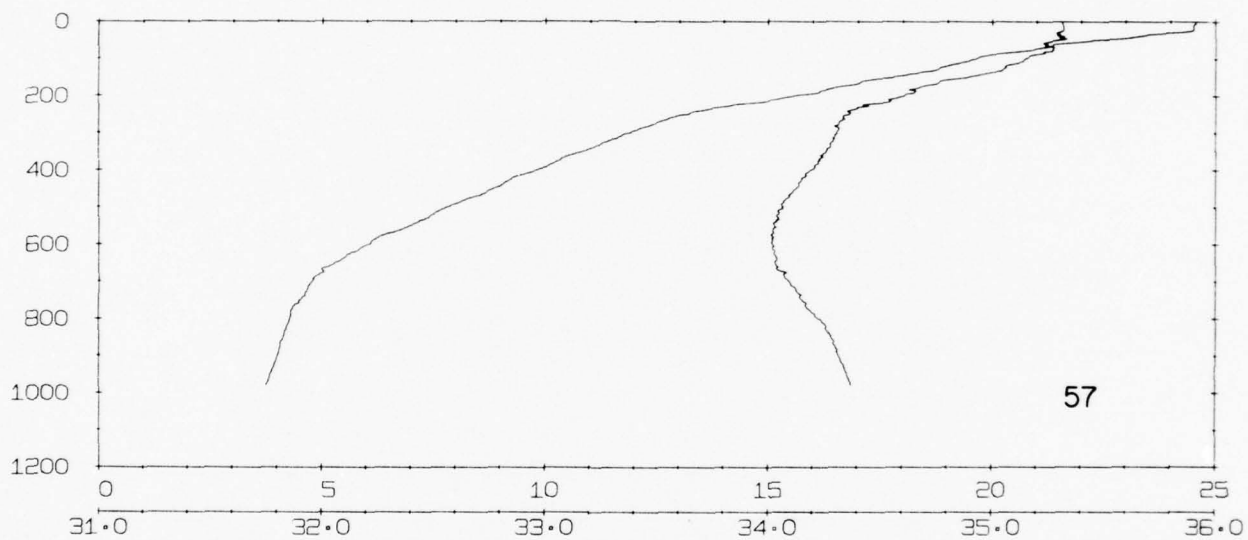
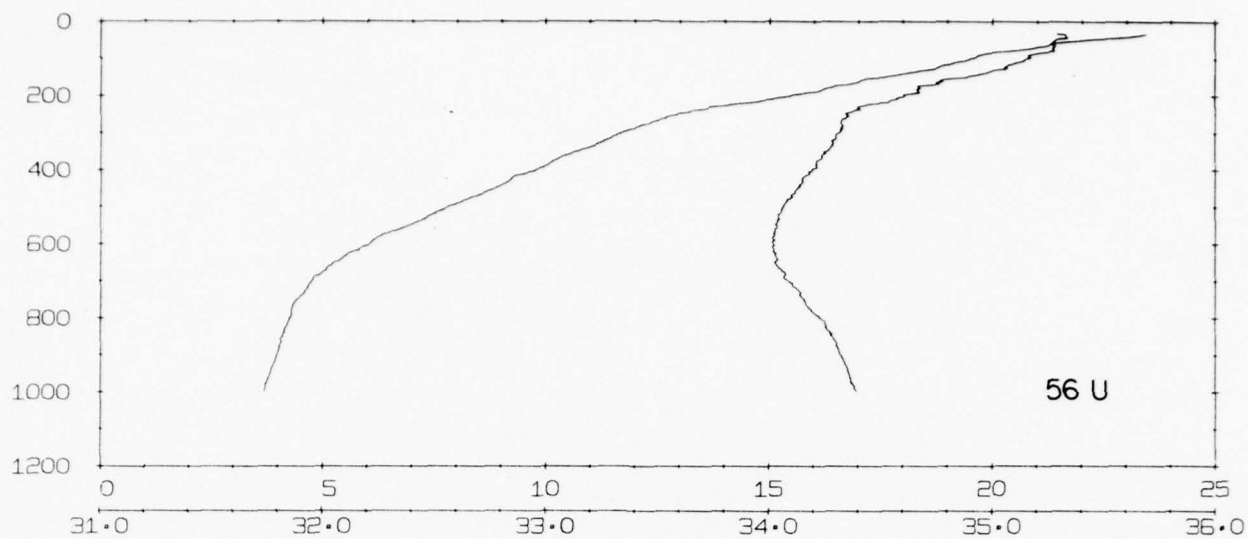
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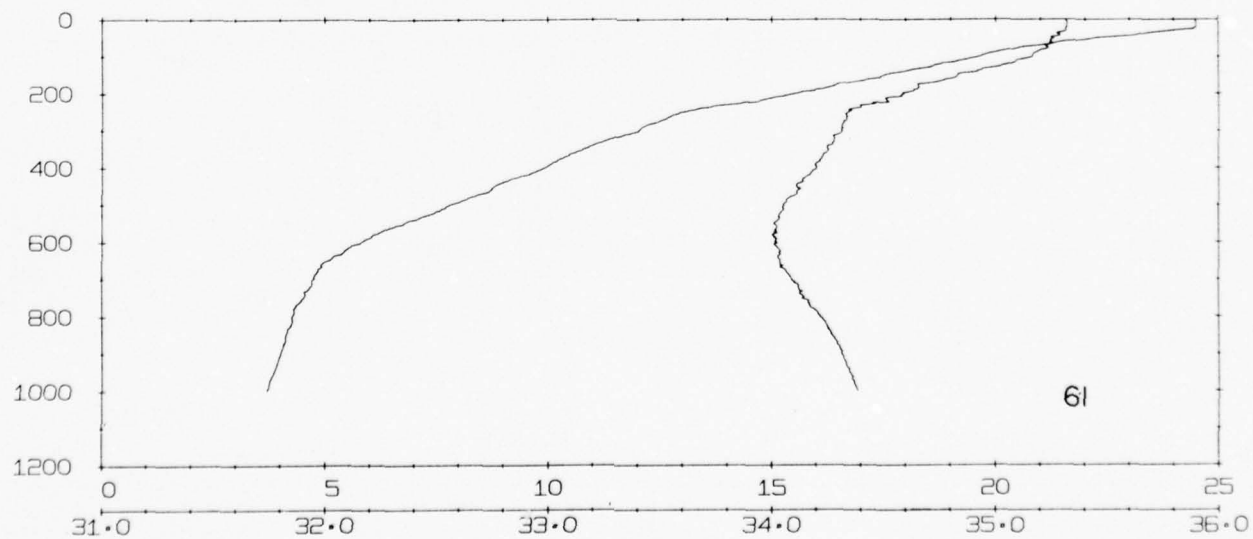
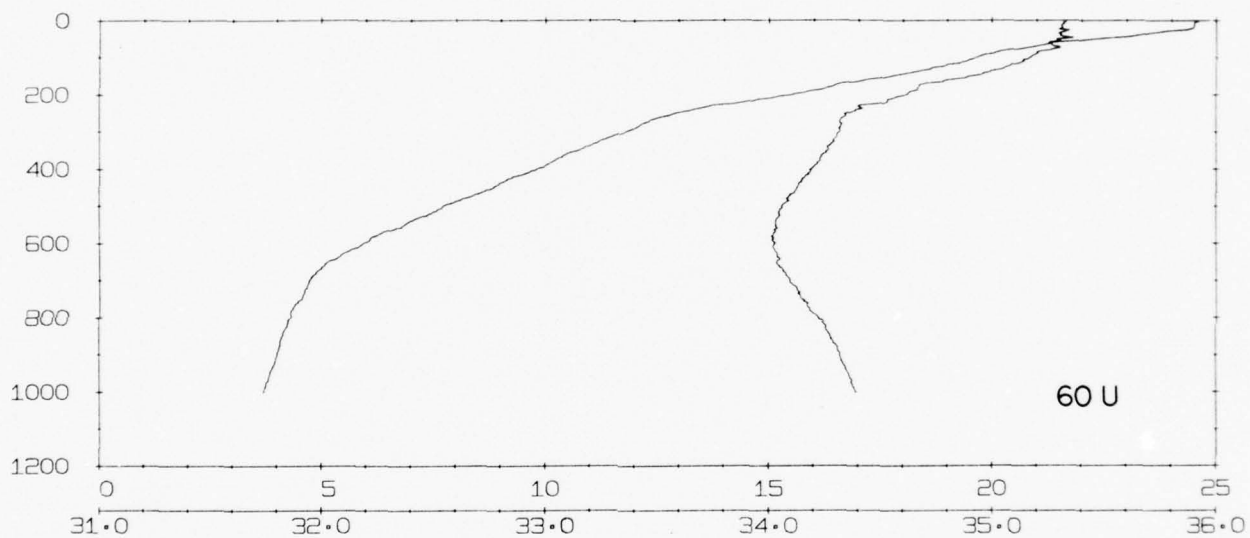
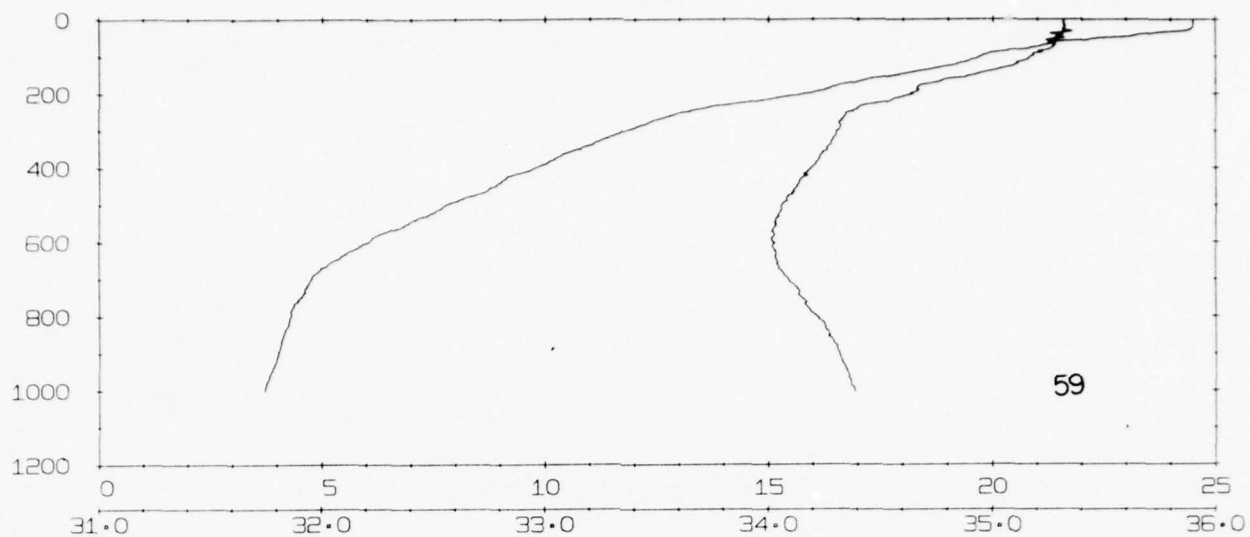
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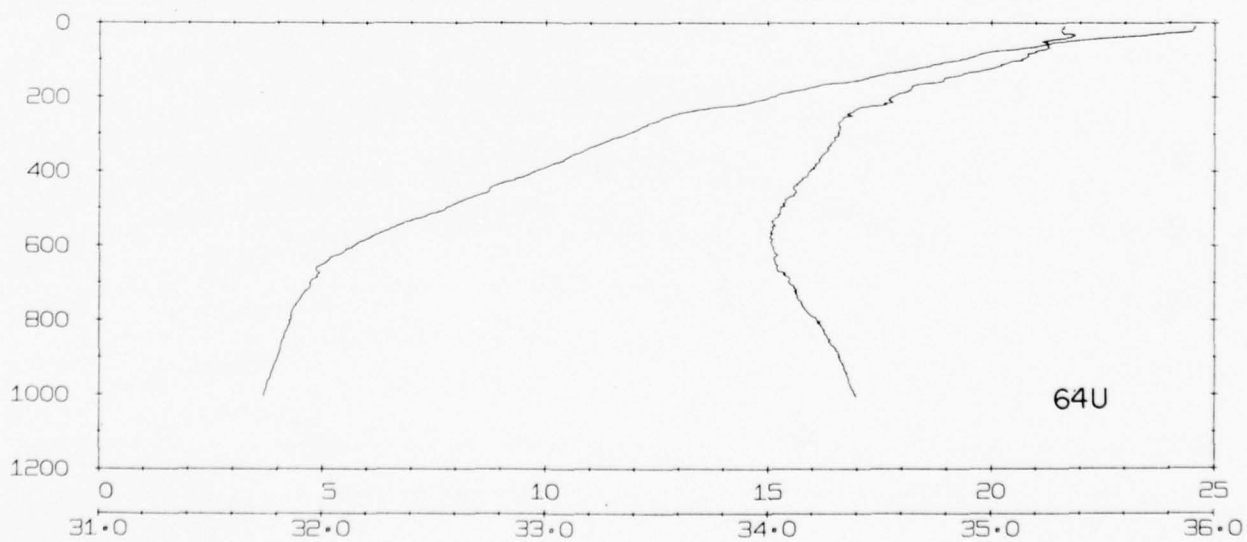
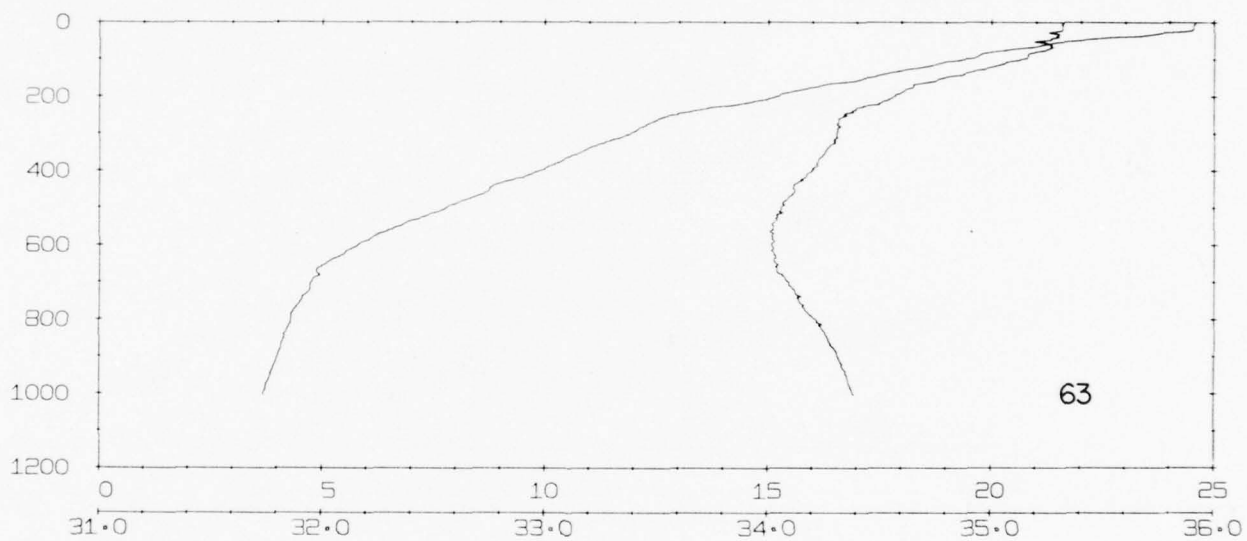
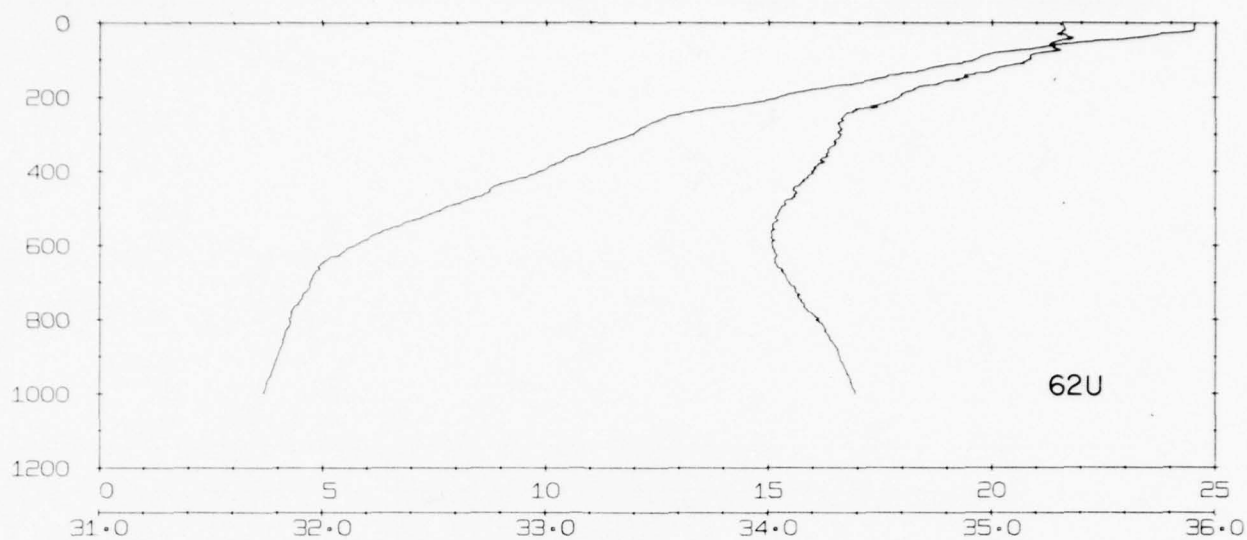
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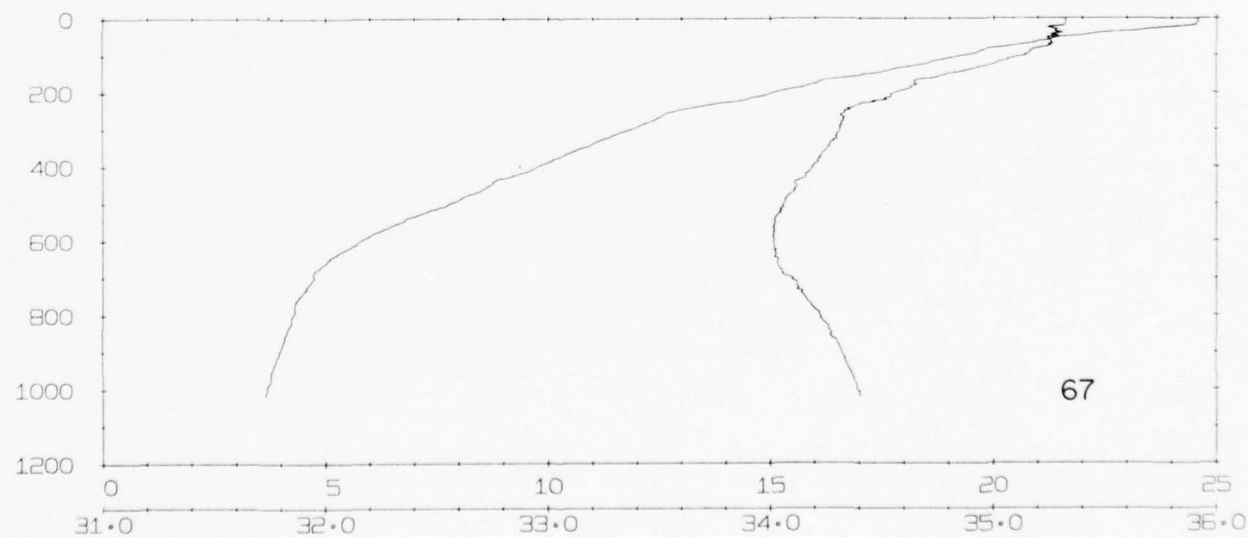
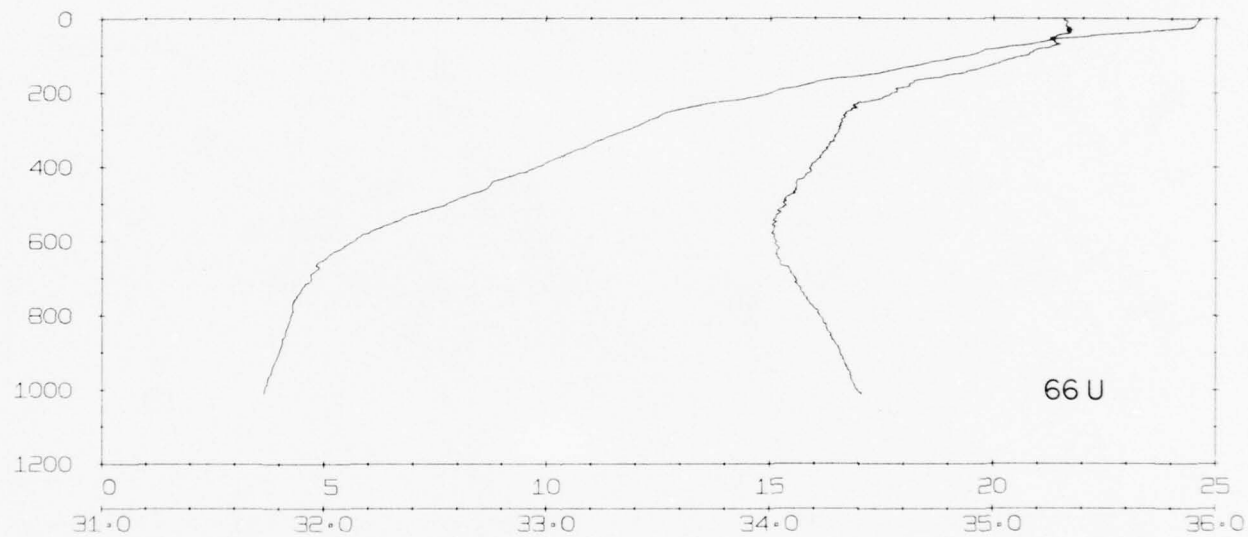
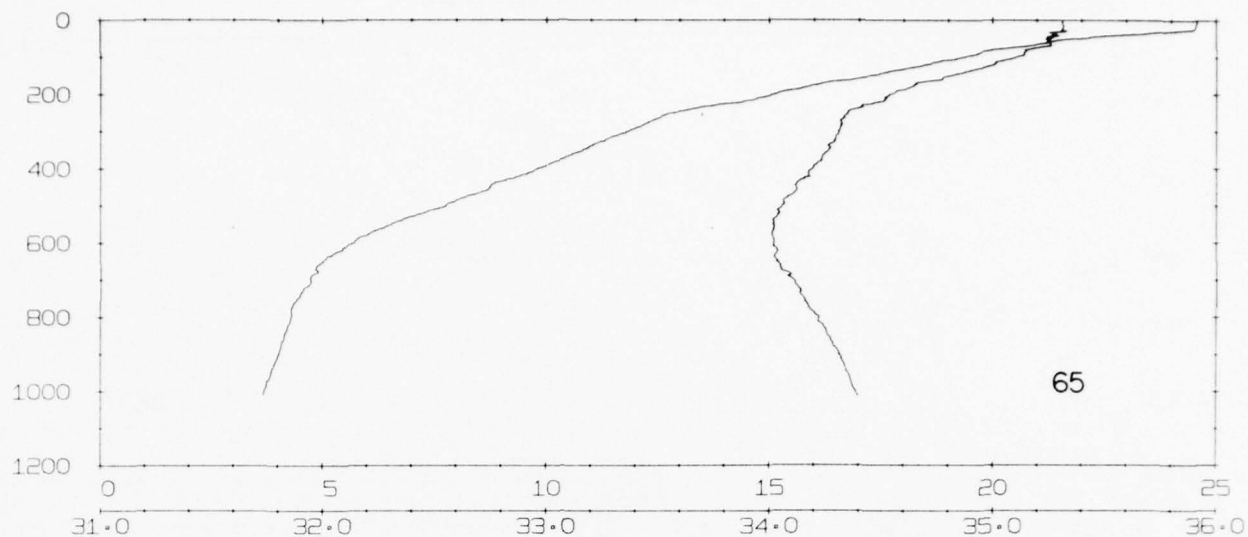
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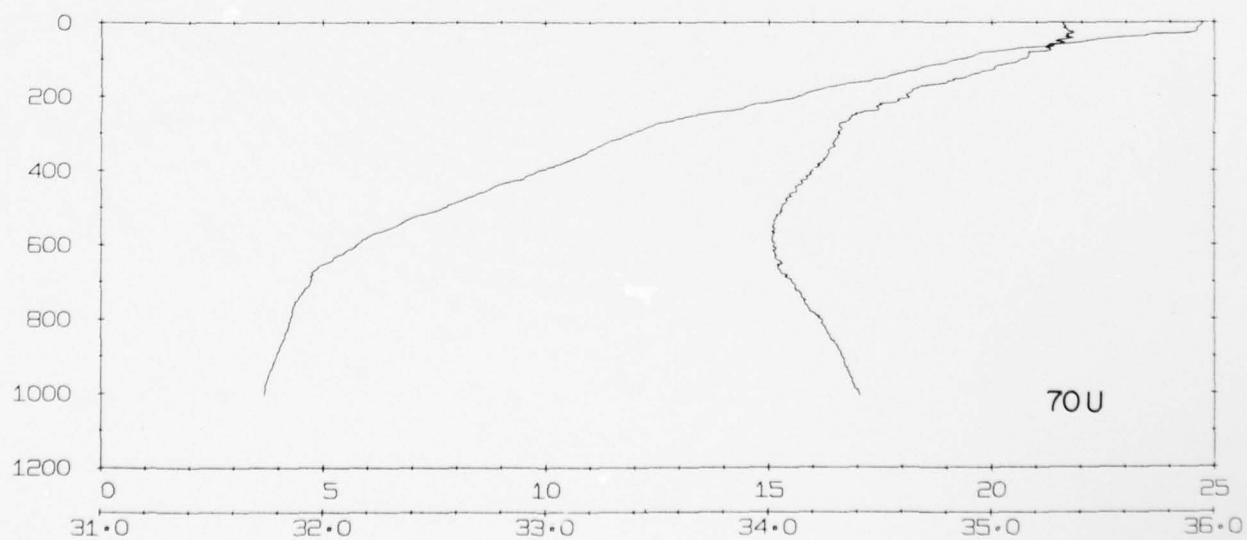
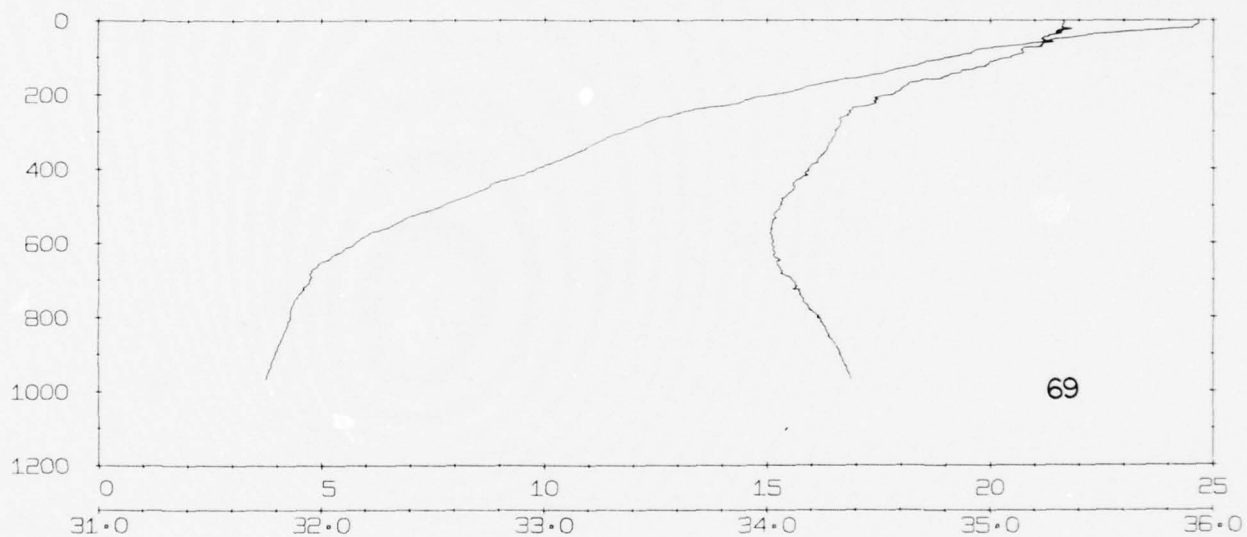
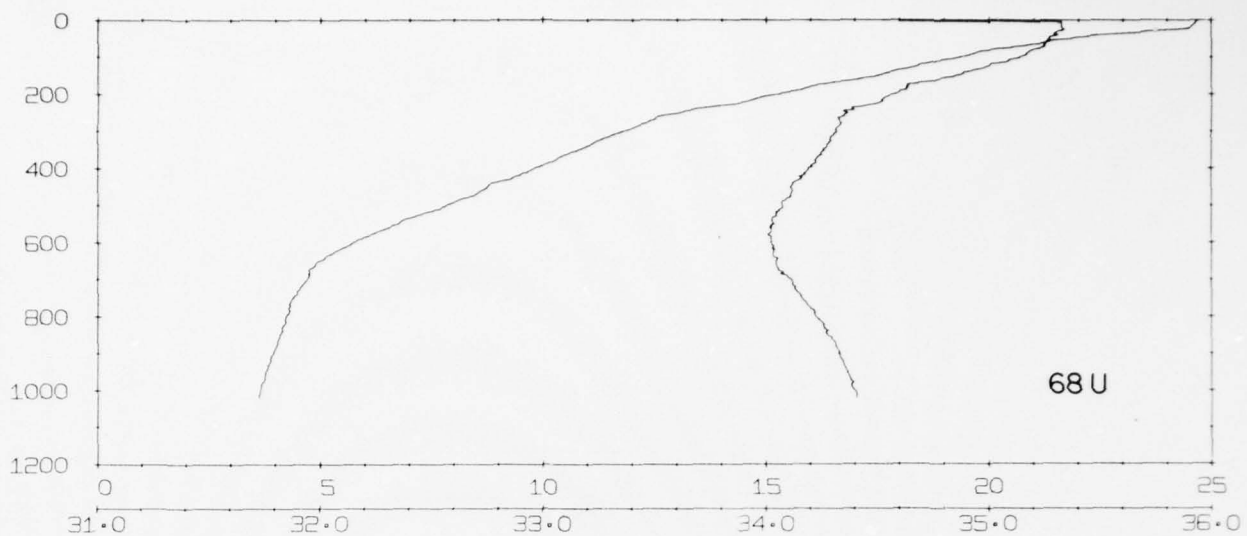
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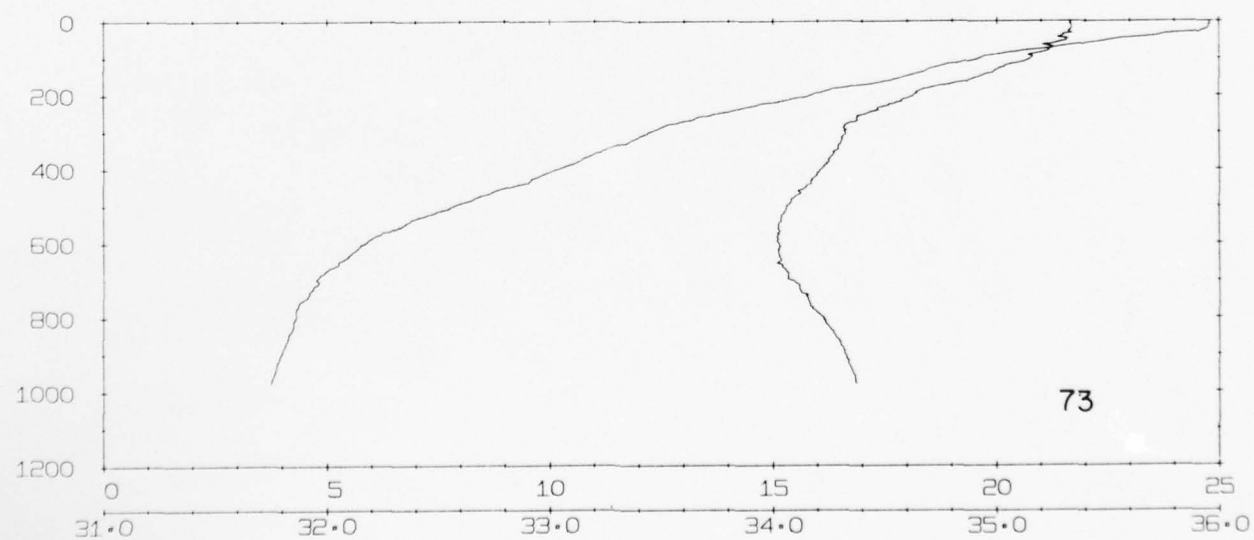
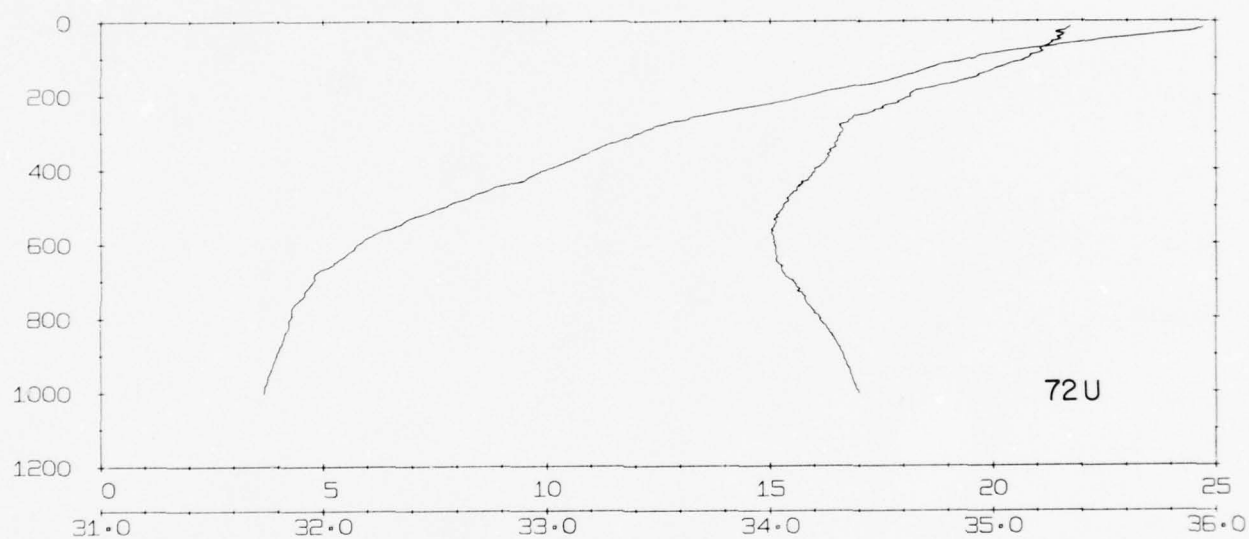
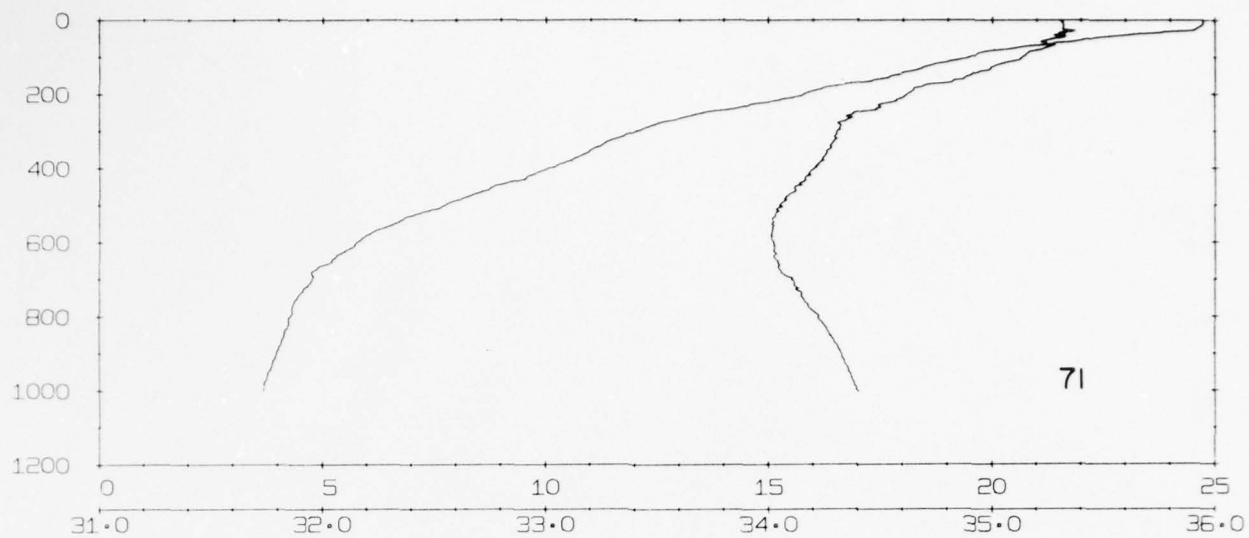
INDOPAC LEG XV



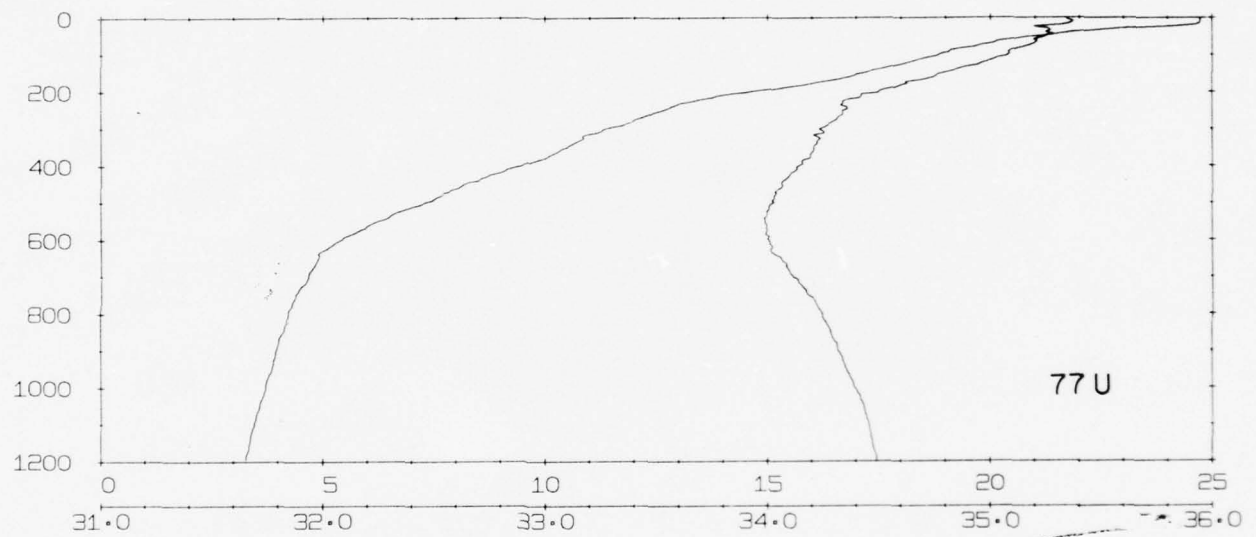
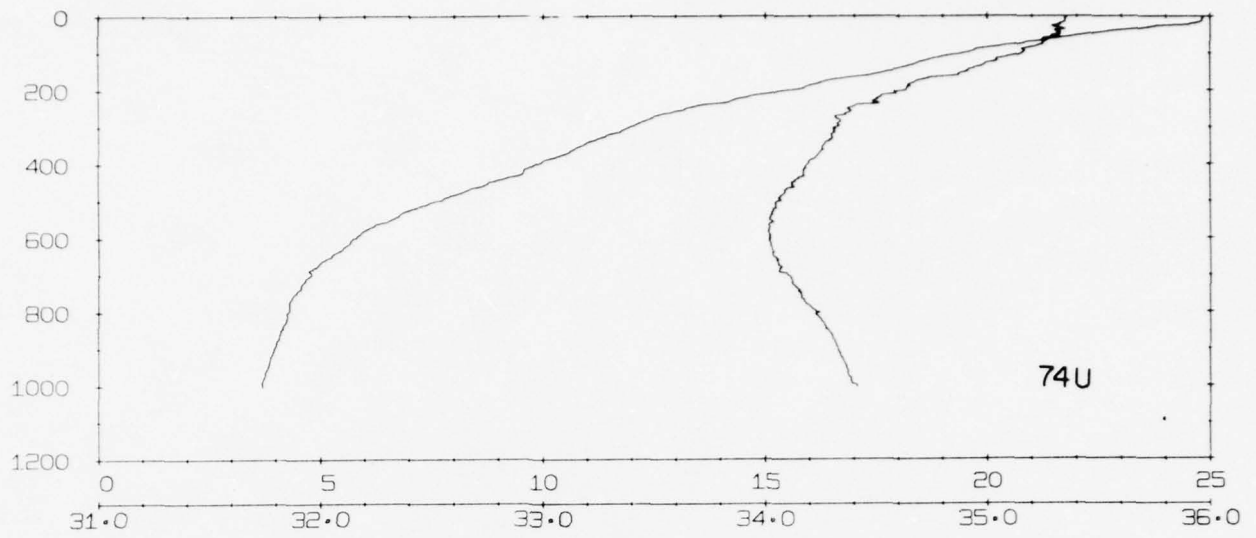
INDOPAC LEG XV



INDOPAC LEG XV



INDOPAC LEG XV



Station 1: 4 June 1977 1146 GMT

<u>Z</u>	<u>CHLa</u>	<u>PHAE0</u>
0	0.06	0.00
10	0.05	0.00
30	0.05	0.00
70	0.07	0.01
90	0.08	0.02
100	0.11	0.02
110	0.11	0.03
120	0.16	0.06
130	0.15	0.11
150	0.09	0.07
203	0.03	0.04

Station 2: 5 June 1977 2120 GMT

<u>Z</u>	<u>CHLa</u>	<u>PHAE0</u>
2	0.06	0.01
16	0.05	0.00
31	0.06	0.01
47	0.06	0.01
61	0.09	0.01
76	0.09	0.02
91	0.12	0.03
96	0.13	0.02
101	0.12	0.04
106	0.15	0.05
111	0.17	0.10
116	0.16	0.08
121	0.13	0.07
126	0.17	0.11
131	0.15	0.11
136	0.15	0.10
141	0.11	0.09

Station 3: 6 June 1977 0403 GMT

<u>Z</u>	<u>CHLa</u>	<u>PHAE0</u>
1	0.05	0.00
16	0.04	0.00
32	0.06	0.01
46	0.08	0.02
61	0.09	0.01
75	0.11	0.01
90	0.11	0.03
101	0.20	0.13
104	0.26	0.12
109	0.28	0.15
114	0.24	0.13
120	0.17	0.12
125	0.24	0.15
129	0.20	0.17
134	0.18	0.15
139	0.17	0.14
149	0.12	0.10
173	0.05	0.05

Station 4: 6 June 1977 0945 GMT

<u>Z</u>	<u>CHLa</u>	<u>PHAE0</u>
1	0.05	0.01
9	0.04	0.00
21	0.04	0.03
31	0.07	0.02
41	0.07	0.01
61	0.08	0.01
75	0.09	0.01
79	0.08	0.01
81	0.12	0.02
95	0.16	0.07
101	0.15	0.19
108	0.20	0.15
117	0.19	0.15
120	0.19	0.16
125	0.17	0.18
130	0.19	0.16
135	0.15	0.10
140	0.15	0.11
142	0.12	0.10
160	0.08	0.05
179	0.05	0.04

INDOPAC - LEG XV - CHLOROPHYLL-A AND PHAEOPHYTIN

Station 5: 6 June 1977 1220 GMT

28° 38.1'N 155° 31.8'W

<u>Z</u>	<u>CHLa</u>	<u>PHAE0</u>
1	0.06	0.01
14	0.05	0.01
21	0.06	0.00
41	0.08	0.01
45	0.11	0.01
61	0.08	0.01
79	0.09	0.02
81	0.07	0.02
92	0.11	0.03
101	0.14	0.06
103	0.15	0.08
109	0.16	0.08
115	0.13	0.10
121	0.14	0.12
123	0.14	0.11
137	0.13	0.10
141	0.11	0.11
150	0.11	0.10
156	0.10	0.07
161	0.11	0.07

Station 7: 8 June 1977 1031 GMT

28° 35.6'N 155° 28.4'W

<u>Z</u>	<u>CHLa</u>	<u>PHAE0</u>
0	0.04	0.00
10	0.04	0.00
16	0.04	0.00
20	0.05	0.00
39	0.05	0.01
45	0.19	0.00
59	0.05	0.01
79	0.05	0.00
87	0.07	0.01
99	0.10	0.03
106	0.10	0.03
111	0.13	0.07
117	0.14	0.10
119	0.15	0.09
126	0.17	0.11
132	0.15	0.11
139	0.12	0.11
159	0.09	0.07
176	0.05	0.03
178	0.04	0.03

Station 6: 6 June 1977 1621 GMT

28° 38.3'N 155° 31.7'N

<u>Z</u>	<u>CHLa</u>	<u>PHAE0</u>
1	0.07	0.01
16	0.07	0.01
31	0.08	0.01
46	0.07	0.01
61	0.07	0.01
76	0.09	0.02
91	0.12	0.02
96	0.15	0.06
101	0.15	0.08
106	0.15	0.09
111	0.15	0.22
116	0.19	0.15
121	0.15	0.16
126	0.15	0.17
131	0.14	0.14
136	0.12	0.13
141	0.10	0.08
151	0.06	0.05

Station 8: 9 June 1977 1236 GMT

28° 45.9'N 155° 31.1'W

<u>Z</u>	<u>CHLa</u>	<u>PHAE0</u>
1	0.06	0.01
21	0.06	0.01
32	0.06	0.01
41	0.07	0.01
55	0.07	0.01
61	0.07	0.01
80	0.08	0.02
94	0.13	0.05
100	0.14	0.06
104	0.22	0.11
109	0.22	0.11
114	0.20	0.09
120	0.15	0.08
124	0.16	0.09
132	0.15	0.09
140	0.12	0.07
147	0.06	0.04
160	0.10	0.06
167	0.10	0.02
180	0.07	0.05

INDOPAC - LEG XV - CHLOROPHYLL-A AND PHAEOPHYTIN

Station 9: 10 June 1977 0841 GMT
28° 35.0'N 155° 24.8'W

<u>Z</u>	<u>CHLa</u>	<u>PHAE0</u>
1	0.06	0.00
6	0.04	0.00
21	0.05	0.00
41	0.06	0.00
47	0.07	0.00
61	0.05	0.00
81	0.08	0.00
83	0.07	0.00
100	0.12	0.03
101	0.12	0.03
111	0.20	0.09
115	0.21	0.10
121	0.20	0.09
124	0.21	0.10
132	0.17	0.09
141	0.13	0.09
150	0.09	0.06
153	0.08	0.05
160	0.06	0.03
180	0.04	0.01

Station 11: 13 June 1977 1135 GMT
28° 21.6'N 155° 27.7'W

<u>Z</u>	<u>CHLa</u>	<u>PHAE0</u>
0	0.05	0.00
50	0.06	0.00
99	0.27	0.17
125	0.08	0.08
149	0.01	0.02
175	0.00	0.02
199	0.00	0.01
224	0.00	0.01
249	0.00	0.00
274	0.00	0.01
298	0.00	0.00
348	0.00	0.00

Station 10: 10 June 1977 1050 GMT
28° 35.8'N 155° 21.9'W

<u>Z</u>	<u>CHLa</u>	<u>PHAE0</u>
0	0.04	0.01
4	0.04	0.00
21	0.04	0.00
41	0.06	0.01
43	0.05	0.01
53	0.05	0.02
61	0.05	0.02
80	0.07	0.03
88	0.10	0.03
99	0.12	0.06
109	0.24	0.15
113	0.19	0.12
119	0.19	0.11
121	0.19	0.14
132	0.15	0.12
139	0.12	0.10
160	0.05	0.05
169	0.04	0.03
181	0.02	0.02
200	0.01	0.01

Station 12: 13 June 1977 1410 GMT
28° 21.4'N 155° 27.0'W

<u>Z</u>	<u>CHLa</u>	<u>PHAE0</u>
1	0.05	0.00
16	0.04	0.00
31	0.05	0.00
46	0.06	0.00
61	0.06	0.01
76	0.09	0.02
91	0.15	0.09
100	0.24	0.12
105	0.19	0.15
110	0.19	0.15
115	0.19	0.12
120	0.14	0.12
125	0.12	0.13
130	0.10	0.13
135	0.11	0.11
140	0.08	0.08
150	0.04	0.04
176	0.01	0.01

Station 13: 14 June 1977 0558 GMT

28° 33.3'N 155° 33.6'W

<u>Z</u>	<u>CHLa</u>	<u>PHAE0</u>
0	0.07	0.02
15	0.05	0.00
30	0.06	0.01
45	0.06	0.01
60	0.06	0.00
75	0.07	0.01
90	0.07	0.01
95	0.12	0.04
100	0.13	0.07
105	0.18	0.10
110	0.20	0.11
115	0.15	0.12
120	0.13	0.10
125	0.12	0.10
130	0.10	0.08
135	0.11	0.07
140	0.10	0.08
150	0.07	0.08

Station 14: 14 June 1977 0808 GMT

28° 42.1'N 155° 32.1'W

<u>Z</u>	<u>CHLa</u>	<u>PHAE0</u>
1	0.05	0.01
10	0.05	0.01
21	0.06	0.01
40	0.06	0.01
41	0.05	0.01
57	0.06	0.00
61	0.07	0.02
80	0.08	0.03
87	0.08	0.03
99	0.10	0.04
100	0.10	0.04
107	0.11	0.07
111	0.11	0.10
120	0.12	0.11
123	0.11	0.14
140	0.09	0.10
145	0.09	0.10
160	0.05	0.06
179	0.01	0.01
180	0.01	0.00

Station 15: 14 June 1977 1035 GMT

28° 43.9'N 155° 33.2'W

<u>Z</u>	<u>CHLa</u>	<u>PHAE0</u>
0	0.05	0.01
3	0.05	0.00
20	0.05	0.00
37	0.06	0.01
40	0.06	0.01
60	0.07	0.01
65	0.08	0.02
80	0.08	0.02
82	0.08	0.02
99	0.06	0.03
100	0.09	0.03
109	0.10	0.05
112	0.12	0.07
120	0.10	0.07
125	0.12	0.09
139	0.10	0.09
145	0.10	0.10
160	0.08	0.21
170	0.04	0.05
179	0.04	0.07

Station 17: 16 June 1977 0803 GMT

28° 30.2'N 155° 17.3'W

<u>Z</u>	<u>CHLa</u>	<u>PHAE0</u>
1	0.04	0.00
10	0.03	0.01
21	0.03	0.01
24	0.03	0.01
41	0.05	0.01
59	0.06	0.01
61	0.06	0.01
75	0.06	0.02
80	0.07	0.03
92	0.15	0.11
100	0.20	0.17
110	0.15	0.20
116	0.12	0.22
120	0.11	0.17
126	0.09	0.11
140	0.19	0.30
149	0.05	0.08
160	0.06	0.06
173	0.03	0.05
181	0.03	0.06

INDOPAC - LEG XV - CHLOROPHYLL-A AND PHAEOPHYTIN

Station 19: 20 June 1977 0749 GMT

28° 34.7'N 155° 13.8'W

<u>Z</u>	<u>CHLa</u>	<u>PHAEO</u>
1	0.03	0.01
11	0.03	0.01
17	0.03	0.01
21	0.03	0.01
41	0.04	0.01
47	0.05	0.02
51	0.05	0.02
62	0.06	0.02
82'	0.08	0.03
88	0.12	0.13
102	0.08	0.12
112	0.09	0.21
121	0.08	0.19
126	0.10	0.17
128	0.09	0.16
141	0.10	0.12
161	0.04	0.09
170	0.04	0.07
179	0.02	0.03
181	0.02	0.03

Station 20: 20 June 1977 1100 GMT

28° 34.3'N 155° 12.7'W

<u>Z</u>	<u>CHLa</u>	<u>PHAEO</u>
1	0.03	0.01
13	0.03	0.01
15	0.03	0.01
21	0.03	0.01
41	0.04	0.01
53	0.04	0.01
61	0.05	0.02
81	0.06	0.02
89	0.06	0.02
101	0.10	0.05
108	0.11	0.06
111	0.13	0.10
121	0.12	0.13
123	0.11	0.13
125	0.08	0.14
134	0.08	0.15
141	0.08	0.10
157	0.04	0.08
161	0.04	0.05
181	0.01	0.01

Station 21: 20 June 1977 1721 GMT

28° 38.0'N 155° 41.3'W

<u>Z</u>	<u>CHLa</u>	<u>PHAEO</u>
1	0.05	0.01
16	0.04	0.01
46	0.06	0.02
61	0.06	0.02
76	0.04	0.01
90	0.06	0.03
95	0.06	0.03
100	0.07	0.03
105	0.08	0.04
110	0.07	0.04
115	0.07	0.04
120	0.08	0.04
125	0.08	0.06
130	0.06	0.05
135	0.08	0.08
140	0.07	0.09
150	0.08	0.09

Station 22: 21 June 1977 0435 GMT

28° 35.9'N 155° 20.3'W

<u>Z</u>	<u>CHLa</u>	<u>PHAEO</u>
1	0.03	0.01
16	0.03	0.01
31	0.04	0.01
46	0.04	0.01
60	0.05	0.02
75	0.07	0.03
80	0.11	0.07
85	0.15	0.13
90	0.14	0.11
94	0.11	0.09
100	0.12	0.09
104	0.11	0.10
110	0.10	0.09
115	0.10	0.13
119	0.12	0.16
124	0.11	0.12
134	0.08	0.12
140	0.06	0.13

Station 23: 22 June 1977 0846 GMT
28° 36.7'N 155° 30.9'W

<u>Z</u>	<u>CHLa</u>	<u>PHAEO</u>
1	0.03	0.01
2	0.03	0.00
21	0.03	0.01
32	0.04	0.01
41	0.05	0.01
55	0.04	0.01
61	0.06	0.01
81	0.05	0.02
94	0.07	0.02
100	0.09	0.03
104	0.08	0.03
111	0.12	0.06
114	0.12	0.06
119	0.11	0.09
129	0.13	0.13
139	0.12	0.15
157	0.19	0.13
164	0.08	0.05
170	0.05	0.04
176	0.03	0.07

Station 25: 24 June 1977 0933 GMT
28° 32.9'N 155° 27.1'W

<u>Z</u>	<u>CHLa</u>	<u>PHAEO</u>
1	0.03	0.01
6	0.03	0.01
21	0.03	0.01
41	0.04	0.01
43	0.04	0.01
53	0.04	0.01
61	0.05	0.01
81	0.07	0.04
84	0.09	0.03
101	0.19	0.23
102	0.22	0.20
111	0.19	0.17
120	0.11	0.27
122	0.12	0.13
124	0.11	0.13
141	0.10	0.11
150	0.05	0.09
160	0.05	0.06
169	0.04	0.04
180	0.03	0.03

Station 24: 22 June 1977 1107 GMT
28° 37.3'N 155° 28.9'W

<u>Z</u>	<u>CHLa</u>	<u>PHAEO</u>
1	0.02	0.00
21	0.03	0.00
37	0.03	0.00
41	0.03	0.00
47	0.04	0.01
60	0.04	0.00
81	0.05	0.01
83	0.06	0.01
99	0.06	0.02
101	0.08	0.02
111	0.09	0.04
115	0.10	0.05
121	0.10	0.06
124	0.10	0.08
131	0.11	0.07
140	0.11	0.08
154	0.07	0.07
161	0.08	0.07
168	0.05	0.04
181	0.03	0.02

Station 26: 24 June 1977 1133 GMT
28° 34.3'N 155° 25.2'W

<u>Z</u>	<u>CHLa</u>	<u>PHAEO</u>
1	0.03	0.00
3	0.03	0.00
21	0.03	0.00
28	0.03	0.00
41	0.04	0.00
57	0.05	0.00
61	0.04	0.00
81	0.05	0.01
91	0.07	0.02
100	0.11	0.05
101	0.13	0.07
112	0.15	0.14
117	0.18	0.12
122	0.16	0.15
125	0.18	0.12
141	0.08	0.11
156	0.06	0.07
161	0.03	0.08
162	0.05	0.05
181	0.03	0.03

INDOPAC - LEG XV - CHLOROPHYLL-A AND PHAEOPHYTIN

Station 27: 25 June 1977 0105 GMT

28° 39.7'N 155° 26.4'W

<u>Z</u>	<u>CHLa</u>	<u>PHAE0</u>
1	0.03	0.00
21	0.04	0.00
26	0.03	0.00
36	0.05	0.00
41	0.05	0.01
61	0.06	0.00
69	0.06	0.00
81	0.09	0.04
83	0.10	0.04
94	0.12	0.06
100	0.21	0.15
104	0.24	0.13
113	0.23	0.23
120	0.19	0.15
125	0.19	0.17
136	0.10	0.07
140	0.11	0.08
141	0.10	0.09
159	0.07	0.06
178	0.03	0.03

Station 29: 26 June 1977 1822 GMT

28° 41.2'N 155° 20.6'W

<u>Z</u>	<u>CHLa</u>	<u>PHAE0</u>
1	0.02	0.00
21	0.03	0.00
26	0.03	0.00
41	0.04	0.00
61	0.06	0.00
74	0.06	0.01
77	0.06	0.01
81	0.08	0.03
98	0.10	0.06
100	0.12	0.08
105	0.13	0.10
111	0.20	0.17
113	0.19	0.12
120	0.17	0.13
130	0.11	0.09
140	0.09	0.08
158	0.07	0.06
159	0.07	0.06
165	0.04	0.05
179	0.03	0.02

Station 28: 25 June 1977 0232 GMT

28° 38.0'N 155° 27.1'W

<u>Z</u>	<u>CHLa</u>	<u>PHAE0</u>
1	0.03	0.00
4	0.03	0.00
10	0.03	0.00
21	0.04	0.00
41	0.06	0.01
59	0.06	0.00
66	0.06	0.00
81	0.10	0.04
93	0.12	0.11
101	0.25	0.21
106	0.23	0.20
111	0.23	0.18
117	0.17	0.17
121	0.17	0.18
127	0.15	0.16
141	0.11	0.10
143	0.09	0.12
149	0.10	0.09
160	0.05	0.05
180	0.03	0.04

Station 31: 27 June 1977 0410 GMT

28° 41.6'N 155° 22.3'W

<u>Z</u>	<u>CHLa</u>	<u>PHAE0</u>
0	0.03	0.00
2	0.03	0.00
3	0.03	0.00
4	0.03	0.00
6	0.04	0.00
7	0.03	0.00
9	0.03	0.00
10	0.03	0.00
12	0.04	0.00
13	0.04	0.00
15	0.04	0.00
16	0.04	0.00

Station 32: 28 June 1977 0236 GMT

28° 33.0'N 155° 31.5'W

<u>Z</u>	<u>CHLa</u>	<u>PHAE0</u>
0	0.04	0.00
2	0.04	0.00
3	0.04	0.00
4	0.08	0.00
6	0.04	0.00
7	0.04	0.00
9	0.04	0.00
10	0.04	0.00
12	0.04	0.00
13	0.04	0.00
15	0.04	0.00
16	0.04	0.00

INDOPAC Leg XV PRIMARY PRODUCTIVITY

Station	Date 1977	Secchi Depth meters	Incubation Period Local Time	Depth meters	Chlorophyll-a mg/m ³	Phaeophytin mg/m ³	Uncorrected Production Data mgC/m ³		Total Production mgC/m ³	Production/ Chlorophyll-a mgC/mgChl-a
							Light-1	Light-2	Dark	
1	June 9	37	1120-1935 (+10)	0	0.05	.00	0.27	0.47	0.13	0.24
28° 23.5'N				12	0.05	.00	1.41	2.37	0.06	1.83
155° 27.2'W				23	0.05	.00	2.67	1.75	0.08	2.13
				44	0.06	.00	1.90	1.61	0.06	1.70
				68	0.08	.01	0.58	0.90	0.10	0.64
				101	0.11	.01	0.44	0.66	0.06	0.49
2	June 15	37 (assumed)	1130-2040 (+10)	0	0.06	.01	0.89	0.83	0.22	0.63
28° 31.2'N				12	0.04	.00	2.97	1.23	0.10	1.20
155° 24.7'W				23	0.05	.00	1.61	1.72	0.10	1.57
				44	0.05	.01	2.00	2.33	0.15	2.01
				68	0.07	.02	1.50	1.64	0.11	1.46
				101	0.10	.06	0.61	1.02	0.28	0.54
3	June 21	37 (assumed)	1150-1930 (+10)	0	0.04	.00	0.76	1.14	0.06	0.90
28° 38.7'N				11	0.04	.00	1.09	1.50	0.04	1.26
155° 20.7'W				21	0.04	.00	1.33	0.97	0.08	1.07
				41	0.05	.00	1.42	1.05	0.03	1.21
				62	0.06	.01	0.75	0.72	0.07	0.67
				93	0.10	.03	0.20	0.64	0.03	0.39
4	June 24	34	1147-1947 (+10)	0	0.03	.01	0.60	0.70	0.04	0.61
28° 35.6'N				11	0.03	.00	1.52	1.10	0.05	1.26
155° 27.4'W				21	0.04	.01	1.82	1.88	0.07	1.78
				39	0.05	.01	1.46	2.17	0.08	1.73
				60	0.06	.00	0.82	0.18	0.08	0.41
				90	0.11	.09	0.63	0.69	0.07	0.59
5	June 26	33	1213-1930 (+10)	0	0.04	.00	0.80	0.83	0.05	0.72
28° 41'N				12	0.04	.00	1.02	1.43	0.05	1.17
155° 20.6'W				22	0.05	.00	1.81	1.59	0.07	1.63
				42	0.06	.00	1.47	1.51	0.12	1.38
				64	0.08	.00	0.75	0.89	0.09	0.73
				96	0.10	.02	0.43	0.50	0.06	0.41
<u>in situ</u>	June 17	37 (assumed)	0430-1900 (+10)	0	.06	.01	0.77	3.26	0.21	1.81
28° 36.9'N				12	.05	.01	3.87	2.25	0.08	2.98
155° 30.0'W				23	.04	.01	2.22	2.14	0.10	2.08
				44	.05	.02	2.23	1.74	0.10	1.88
				68	.05	.03	1.05	1.07	0.13	0.94
				85	.06	.04	0.93	0.77	0.08	0.77
				101	.08	.07	0.73	0.81	0.06	0.71
				110	.08	.07	0.74	0.75	0.03	0.72
				125	.09	.11	0.55	0.57	0.04	0.52
				150	.04	.07	0.16	0.17	0.03	0.13
<u>simulated</u>	June 17	37 (assumed)	0430-1900 (+10)	0	.06	.01	3.01	2.88	0.30	2.65
<u>in situ</u>				12	.05	.01	1.42	4.39	0.15	2.76
				23	.04	.01	4.48	4.84	0.11	4.55
				44	.05	.01	2.30	4.28	0.30	2.99
				68	.05	.02	1.28	1.41	0.15	1.19
				101	.08	.04	0.48	0.34	0.20	0.20

INDOPAC EXPEDITION LEG XVI

The hydrographic data reported herein were collected to complete the deep data not obtained on Leg I of INDOPAC Expedition because of winch problems. The same station pattern used on Leg I was used on Leg XVI with multiple casts to the bottom every even degree of longitude and single casts to 1200 meters every odd degree of longitude between 163°W and 139°W. Thirteen deep stations and thirteen shallow stations were occupied 5 to 31 July 1977.

The Food Chain Research Group also collected biological and chemical data on this leg.

INDOPAC Expedition Leg XVI was sponsored by the National Science Foundation, the Office of Naval Research and the University of California, Scripps Institution of Oceanography.

Sampling procedures were essentially the same as Leg I except Nansen bottles were used instead of Niskin bottles and the primary instrument for nutrient analyses was a Beckman DU spectrophotometer rather than the Technicon AutoAnalyzer. No alkalinity, total carbon dioxide or calcium data were obtained.

Data are presented as tabulated data and curves of temperature and salinity versus depth from the STD with observed sample bottle data plotted for comparison.

PERSONNEL

Ship's Captain: Clark, Geoffrey C. RV THOMAS WASHINGTON

Personnel Participating in the Collection of Data:

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Anderson, George C.	Staff Research Associate, SIO

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Coatsworth, James L.	Resident Marine Technician, SIO
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Ferreira, Michael K.	Cadet, U.S. Merchant Marine Academy
Henry, Arthur J.	Programmer, SIO
Kaye, H. Ross	Electronics Technician, SIO
Kling, Stanley A. Dr.	Assistant Research Biologist, SIO
Landry, Michael R. Dr.	Post Graduate Research Biologist, SIO
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Snider, Leslie J.	Graduate Student, SIO
Star, Jeffrey L.	Graduate Student, SIO
Tsuchiya, Mizuki Dr.	Associate Research Oceanographer, SIO
Vakassian, Leslie	Graduate Student, SIO
Zakar, Karen S.	Staff Research Associate, SIO

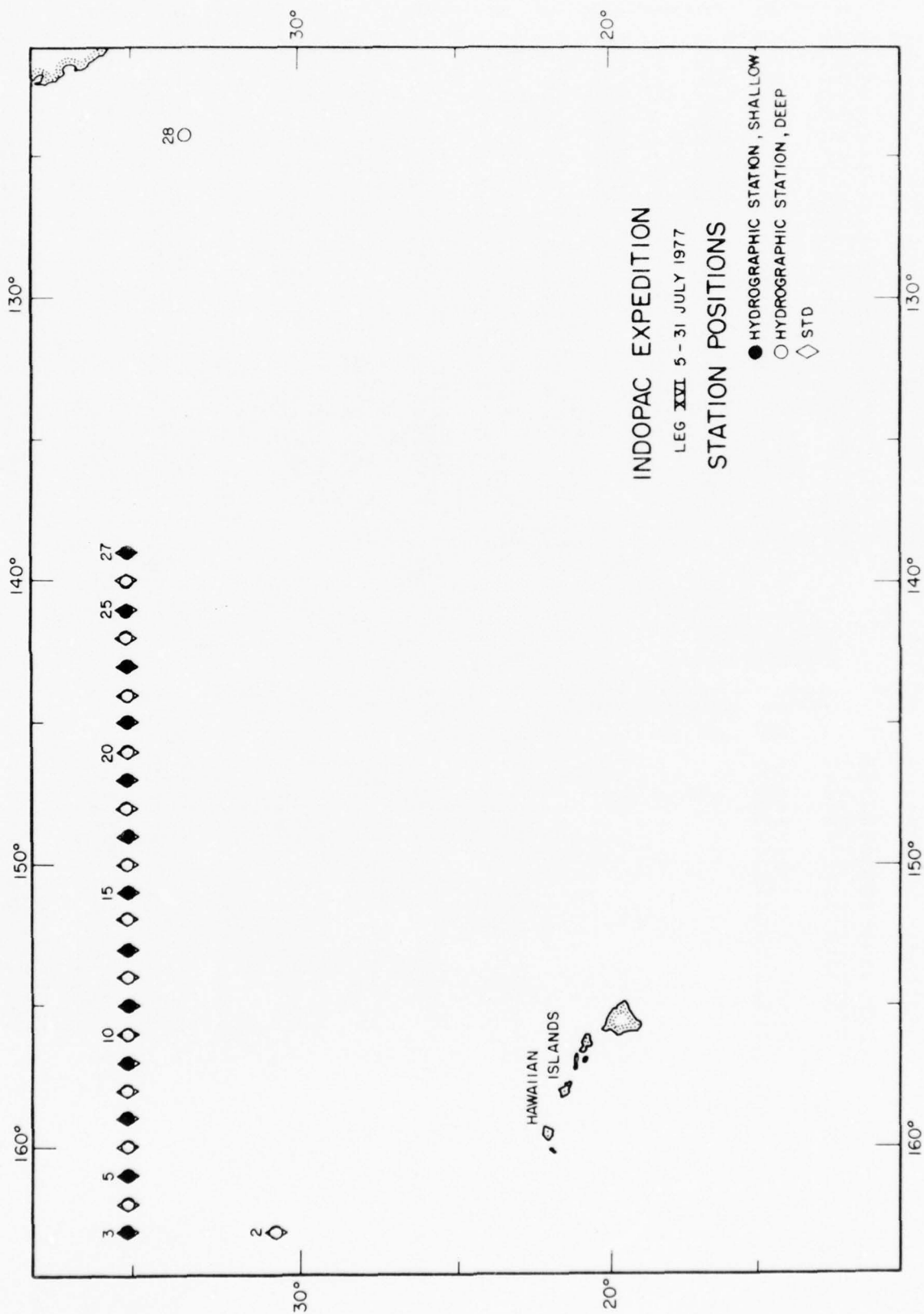


FIGURE 9

RV THOMAS WASHINGTON

INDOPAC LEG XVI

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LATITUDE		LONGITUDE		MO/DAY/YR		MESSENGER		TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES		
30 46.2N		163 30.4W		7/10/77		1720 0635		GMT	5741M	120	16KT	1	090 8 8		
Z	T	S	O2	P04	S103	N02	N03	DT	Z	T	S	O2	SIGT	DT	DD
1	25.66	35.338	4.66	0.01	2.	0.00	0.0	447.8	0	25.66	35.338	4.66	23.415	447.8	0.000
11	25.64	35.339	4.88	0.01	2.	0.01	0.1	447.1	10	25.64	35.338	4.87	23.421	447.2	0.045
22	25.42	35.318	4.87	0.00	2.	0.01	0.0	442.1	20	25.46	35.321	4.87	23.464	443.1	0.089
41	21.73	35.154	5.46	0.00	2.	0.00	0.0	351.0	30	24.02	35.240	5.10	23.838	407.4	0.132
71	19.32	35.037	5.48	0.05	3.	0.01	0.0	298.0	50	20.72	35.116	5.47	24.676	327.5	0.206
99	18.15	34.917	5.40	0.08	3.	0.03	0.0	278.6	75	19.13	35.024	5.48	25.024	294.4	0.264
123	16.82	34.735	5.22	0.20	4.	0.15	1.7	261.3	100	18.09	34.909	5.39	25.198	277.8	0.356
148	15.79	34.611	5.18	0.30	6.	0.05	3.6	247.7	125	16.73	34.723	5.22	25.385	260.0	0.424
172	15.08	34.537	4.99	0.41	7.	0.01	5.0	238.0	150	15.72	34.604	5.17	25.524	246.8	0.469
196	14.46	34.494	4.90	0.52	8.	0.01	6.8	228.4	200	14.35	34.486	4.91	25.735	226.8	0.610
245	13.20	34.402	5.14	0.63	10.	0.02	8.3	210.2	250	13.10	34.397	5.13	25.925	208.7	0.722
295	12.26	34.354	5.08	0.77	12.	0.02	10.6	196.2	300	12.17	34.350	5.08	26.071	194.9	0.826
392	10.47	34.241	5.01	1.04	19.	0.02	14.6	173.2	400	10.32	34.231	4.99	26.317	171.5	1.017
490	8.51	34.110	4.43	1.51	32.	0.00	21.1	152.3	500	8.26	34.095	4.29	26.545	149.9	1.187
587	6.28	34.005	2.96	2.26	57.	0.00	31.0	130.1	600	6.07	34.007	2.77	26.781	127.5	1.334
686	5.06	34.044	1.74	2.78	81.	0.01	38.5	113.0	700	4.97	34.054	1.64	26.951	111.4	1.461
783	4.56	34.112	1.16	3.02	96.	0.00	41.0	102.6	800	4.48	34.130	1.05	27.066	100.5	1.574
882	4.10	34.215	0.60	3.17	113.	0.00	43.2	90.2	1000	3.63	34.328	0.41	27.311	77.2	1.768
980	3.69	34.310	0.39	3.20	127.	0.00	44.8	79.1	1200	3.20	34.451	0.65	27.450	64.0	1.926
1178	3.24	34.443	0.57	3.27	142.	0.00	44.6	64.9	1500	2.66	34.541	0.95	27.571	52.6	2.127
1213A	3.18	34.455	0.69	3.13	138.		43.5	63.5	1750	2.29	34.581	1.26	27.634	46.7	2.275
1460A	2.72	34.532	0.91	3.07	150.		42.1	53.7	2000	2.00	34.608	1.61	27.679	42.4	2.407
1708A	2.35	34.574	1.21	3.08	161.		41.4	47.6	2250	1.81	34.627	1.99	27.709	39.5	2.531
1957A	2.04	34.602	1.54	2.94	168.		40.4	43.0	2500	1.67	34.642	2.32	27.732	37.3	2.649
2205A	1.84	34.624	1.93	2.85	169.		40.2	39.9	2750	1.57	34.656	2.62	27.751	35.5	2.763
2453A	1.70	34.639	2.25	2.82	172.		40.1	37.8	3000	1.55	34.662	2.81	27.757	35.0	2.875
2700A	1.57	34.654	2.57	2.73	170.		39.6	35.7	3250	1.52	34.669	2.94	27.764	34.3	2.987
2948A	1.55	34.660	2.78	2.69	169.		38.2	35.1	3500	1.49	34.674	3.14	27.770	33.7	3.098
3196A	1.53	34.667	2.90	2.68	169.		37.4	34.5	3750	1.48	34.677	3.30	27.774	33.5	3.210
3444A	1.49	34.672	3.10	2.64	166.		37.0	33.8	4000	1.47	34.680	3.42	27.777	33.1	3.322
3692A	1.48	34.676	3.27	2.58	164.		36.0	33.4	4250	1.47	34.683	3.52	27.779	32.9	3.435
3940A	1.47	34.679	3.38	2.54	161.		36.4	33.1	4500	1.48	34.684	3.52	27.780	32.8	3.550
4188A	1.47	34.682	3.52	2.49	160.		35.8	32.9	4750	1.51	34.685	3.59	27.778	33.0	3.667
4436A	1.47	34.683	3.51	2.55			36.6	32.8	5000	1.54	34.683	3.68	27.775	33.3	3.787
4684A	1.50	34.685	3.56	2.50	155.		35.0	32.9							
4931A	1.53	34.682	3.66	2.50	152.		34.8	33.3							

RV THOMAS WASHINGTON

INDOPAC LEG XVI

3

LATITUDE		LONGITUDE		MO/DAY/YR		MESSENGER		TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES		
35 11.2N		162 59.4W		7/12/77		0747 GMT			5844M	100	14KT				
Z	T	S	O2	P04	S103	N02	N03	DT	Z	T	S	O2	SIGT	DT	DD
1	22.07	34.357	5.26					417.6	0	22.07	34.357	5.26	23.731	417.6	0.000
11	21.31	34.409	5.37					393.8	10	21.43	34.410	5.35	23.943	397.4	0.041
20	19.43	34.373	5.55					348.9	20	19.43	34.373	5.55	24.452	348.9	0.078
40	15.04	34.386	6.37					248.2	30	17.05	34.368	5.97	25.037	293.2	0.110
70	13.21	34.335	6.09					215.4	50	14.06	34.360	6.28	25.700	230.2	0.163
98	12.38	34.312	5.72					201.5	75	13.03	34.331	6.02	25.886	212.3	0.219
123	12.04	34.302	5.59					196.0	100	12.35	34.313	5.70	26.008	200.9	0.271
148	11.54	34.233	5.77					192.1	125	12.00	34.298	5.60	26.063	195.6	0.321
173	11.04	34.170	5.85					188.1	150	11.49	34.228	5.78	26.104	191.8	0.370
197	10.84	34.173	5.84					184.5	200	10.83	34.177	5.84	26.185	184.1	0.466
247	10.71	34.219	5.81					178.9	250	10.68	34.219	5.79	26.244	178.5	0.559
296	10.17	34.191	5.33					172.0	300	10.13	34.190	5.30	26.317	171.5	0.650
395	9.06	34.131	4.74					159.0	400	8.98	34.127	4.72	26.458	158.1	0.822
493	7.34	34.030	4.17					141.9	500	7.21	34.026	4.09	26.644	140.5	0.979
593	5.63	33.992	2.90					123.3	600	5.54	33.995	2.82	26.837	122.2	1.118
691	4.60	34.043	1.86					108.2	700	4.53	34.051	1.78	26.997	107.0	1.239
790	4.04	34.127	1.10					96.2	800	4.00	34.137	1.05	27.122	95.2	1.347
887	3.70	34.209	0.69					86.8	1000	3.37	34.281	0.42	27.299	78.2	1.535
986	3.41	34.275	0.44					79.3	1200	2.92	34.403	0.26	27.439	65.2	1.693
1182	2.95	34.393	0.27					66.2							

LATITUDE		LONGITUDE		MO/DAY/YR		START TIME		LATITUDE		LONGITUDE		MO/DAY/YR		START TIME	
30 46.2N		163 30.3W		07/10/77		1758 GMT		35 11.1N		163 00.0W		07/12/77		0707 GMT	
Z	T	S	SIGMA T	DT	DD	Z	T	S	SIGMA T	DT	DD	Z	T	S	SIGMA T
0	25.41	35.25	23.425	446.8	0.000	0	22.07	34.36	23.734	417.4	0.000	0	22.07	34.36	23.734
10	25.39	35.26	23.439	445.4	0.045	10	21.66	34.37	23.855	405.8	0.041	10	21.66	34.37	23.855
20	24.17	35.24	23.793	411.7	0.088	20	19.68	34.34	24.363	357.4	0.079	20	19.68	34.34	24.363
30	22.57	35.12	24.168	375.9	0.127	30	18.93	34.33	24.547	339.8	0.114	30	18.93	34.33	24.547
40	20.89	35.06	24.589	335.8	0.163	40	15.63	34.32	25.328	265.5	0.145	40	15.63	34.32	25.328
50	20.31	35.04	24.729	322.4	0.196	50	14.61	34.42	25.629	236.9	0.170	50	14.61	34.42	25.629
75	18.54	35.00	25.156	281.8	0.272	75	12.92	34.30	25.887	212.4	0.227	75	12.92	34.30	25.887
100	17.02	34.76	25.344	263.9	0.341	100	12.36	34.31	26.004	201.2	0.279	100	12.36	34.31	26.004
125	16.18	34.68	25.479	251.1	0.406	125	11.89	34.28	26.071	194.9	0.329	125	11.89	34.28	26.071
150	15.27	34.56	25.592	240.3	0.469	150	11.45	34.23	26.114	190.8	0.378	150	11.45	34.23	26.114
175	14.38	34.50	25.740	226.3	0.528	175	11.03	34.16	26.152	187.2	0.426	175	11.03	34.16	26.152
200	13.67	34.42	25.827	218.0	0.585	200	10.77	34.17	26.191	183.5	0.474	200	10.77	34.17	26.191
225	13.09	34.40	25.930	208.3	0.640	225	10.82	34.23	26.229	179.9	0.520	225	10.82	34.23	26.229
250	12.70	34.39	26.000	201.7	0.692	250	10.52	34.21	26.266	176.3	0.566	250	10.52	34.21	26.266
275	12.23	34.36	26.068	195.2	0.744	275	10.22	34.19	26.303	172.9	0.611	275	10.22	34.19	26.303
300	11.79	34.33	26.129	189.4	0.793	300	10.05	34.19	26.332	170.1	0.656	300	10.05	34.19	26.332
350	10.99	34.28	26.237	179.1	0.889	350	9.47	34.15	26.398	163.9	0.742	350	9.47	34.15	26.398
400	9.86	34.19	26.364	167.1	0.980	400	8.73	34.12	26.493	154.8	0.826	400	8.73	34.12	26.493
450	8.94	34.13	26.468	157.2	1.065	450	7.97	34.06	26.562	148.3	0.905	450	7.97	34.06	26.562
500	8.13	34.08	26.554	149.1	1.146	500	7.06	34.01	26.653	139.6	0.981	500	7.06	34.01	26.653
550	7.12	34.02	26.653	139.7	1.223	550	6.20	33.98	26.744	131.0	1.052	550	6.20	33.98	26.744
600	6.26	34.00	26.752	130.2	1.294	600	5.43	34.00	26.855	120.5	1.119	600	5.43	34.00	26.855
650	5.60	34.01	26.843	121.7	1.361	650	4.92	34.01	26.923	114.1	1.181	650	4.92	34.01	26.923
700	5.01	34.04	26.936	112.8	1.424	700	4.52	34.05	26.999	106.6	1.240	700	4.52	34.05	26.999
750	4.62	34.10	27.028	104.1	1.482	750	4.24	34.09	27.061	101.0	1.295	750	4.24	34.09	27.061
800	4.33	34.15	27.099	97.4	1.536	800	4.02	34.13	27.115	95.8	1.348	800	4.02	34.13	27.115
850	4.18	34.19	27.146	92.9	1.587	850	3.83	34.17	27.166	91.0	1.398	850	3.83	34.17	27.166
900	3.96	34.26	27.225	85.4	1.636	900	3.65	34.22	27.224	85.5	1.445	900	3.65	34.22	27.224
950	3.76	34.29	27.269	81.3	1.681	950	3.51	34.25	27.261	81.9	1.491	950	3.51	34.25	27.261
1000	3.64	34.32	27.304	77.9	1.725	1000	3.35	34.29	27.309	77.5	1.534	1000	3.35	34.29	27.309
1100	3.40	34.40	27.391	69.6	1.807	1100	3.11	34.34	27.371	71.6	1.616	1100	3.11	34.34	27.371
1200	3.19	34.45	27.451	64.0	1.882	1100	2.95	34.38	27.417	67.2	1.678	1100	2.95	34.38	27.417
1300	3.00	34.49	27.501	59.3	1.952										
1400	2.80	34.52	27.542	55.3	2.018										
1500	2.61	34.55	27.583	51.5	2.080										
1600	2.454	34.564	27.608	49.1	2.140										
1700	2.279	34.579	27.634	46.6	2.196										
1800	2.176	34.590	27.651	45.0	2.251										
1900	2.084	34.600	27.667	43.5	2.303										
2000	2.028	34.609	27.678	42.4	2.355										
2100	1.944	34.619	27.693	41.0	2.406										
2200	1.856	34.626	27.705	39.9	2.455										
2300	1.788	34.639	27.721	38.4	2.503										
2400	1.741	34.638	27.724	38.1	2.551										
2500	1.695	34.638	27.727	37.8	2.598										
2600	1.659	34.650	27.739	36.6	2.644										
2700	1.624	34.656	27.747	35.9	2.690										
2800	1.595	34.657	27.750	35.7	2.735										
2900	1.564	34.662	27.756	35.1	2.780										
3000	1.548	34.665	27.760	34.7	2.824										
3100	1.542	34.668	27.763	34.5	2.869										
3200	1.535	34.670	27.765	34.3	2.914										
3300	1.523	34.668	27.764	34.3	2.958										
3400	1.501	34.675	27.771	33.6	3.003										
3500	1.494	34.675	27.772	33.6	3.047										
3600	1.487	34.680	27.776	33.2	3.092										
3700	1.478	34.671	27.770	33.6	3.136										
3800	1.477	34.680	27.777	33.1	3.181										
3900	1.474	34.681	27.778	33.0	3.226										
4000	1.474	34.682	27.779	32.9	3.271										
4100	1.475	34.683	27.779	32.9	3.316										
4200	1.478	34.684	27.780	32.6	3.361										
4300	1.483	34.680	27.777	33.1	3.407										
4400	1.488	34.682	27.778	33.0	3.453										
4500	1.495	34.683	27.778	33.0	3.500										
4600	1.500	34.683	27.778	33.0	3.546										
4700	1.508	34.681	27.775	33.2	3.593										
4800	1.515	34.683	27.777	33.1	3.641										
4900	1.523	34.683	27.776	33.2	3.689										
5000	1.530	34.683	27.775	33.2	3.737										
5100	1.539	34.683	27.775	33.3	3.786										
5200	1.547	34.684	27.775	33.3	3.835										
5300	1.558	34.683	27.773	33.4	3.884										
5400	1.568	34.683	27.773	33.5	3.934										
5500	1.578	34.684	27.773	33.5	3.985										
5600	1.588	34.685	27.773	33.5	4.035										
5700	1.601	34.686	27.773	33.5	4.086										

RV THOMAS WASHINGTON										INDOPAC LEG XVI						
LATITUDE		LONGITUDE		MO/DAY/YR		MESSENGER		TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES			
35 09.2N		162 01.2W		7/12/77		1502 1914		GMT	5653M	130	16KT	1	120 8 8			
Z	T	S	O2	P04	SI03	NO2	NO3	DT	Z	T	S	O2	SIGT	DT	DD	
1	22.31	34.019	5.05	0.08	5.	0.00	0.1	448.5	0	22.31	34.019	5.05	23.408	448.5	0.000	
11		34.020	5.28	0.10	5.	0.01	0.0		10	22.31	34.020	5.24	23.409	448.4	0.045	
21	18.72	34.221	5.93	0.09	6.	0.00	0.0	342.7	20	19.11	34.197	5.86	24.400	353.9	0.085	
41	14.41	34.149	7.03	0.13	3.	0.00	0.0	252.7	30	16.46	34.218	6.52	25.060	291.0	0.117	
71	12.30	34.184	6.20	0.47	10.	0.30	5.1	209.4	50	13.43	34.164	6.91	25.679	232.1	0.170	
100	11.63	34.159	5.91	0.63	12.	0.10	7.8	199.2	75	12.16	34.183	6.14	25.944	206.9	0.225	
125	11.32	34.165	5.91	0.65	12.	0.03	8.4	193.3	100	11.63	34.159	5.91	26.026	199.2	0.276	
150	11.05	34.161	5.86	0.69	13.	0.02	9.4	188.9	125	11.32	34.165	5.91	26.088	193.3	0.326	
175	10.71	34.148	5.90	0.73	13.	0.02	9.9	184.1	150	11.05	34.161	5.86	26.134	188.9	0.375	
200	10.52	34.145	5.90	0.77	14.	0.02	10.4	181.2	200	10.52	34.145	5.90	26.216	181.2	0.469	
250	10.23	34.151	5.77	0.85	16.	0.01	10.8	175.9	250	10.23	34.151	5.77	26.271	175.9	0.561	
299	10.16	34.152	5.25	1.07	21.	0.00	14.8		300	9.70	34.138	5.24	26.349	168.5	0.650	
399	8.20	34.072	4.53	1.50	33.	0.00	21.0	150.6	400	8.18	34.072	4.52	26.539	150.4	0.816	
497	6.29	33.986	3.52	2.08	54.	0.00	29.4	131.7	500	6.25	33.987	3.49	26.742	131.2	0.964	
596	5.14	33.998	2.51	2.53	75.	0.00	34.4	117.4	600	5.10	34.001	2.47	26.894	116.8	1.094	
695	4.42	34.066	1.57	2.86	94.	0.00	38.0	104.6	700	4.39	34.071	1.54	27.028	104.0	1.211	
794	3.96	34.150	1.04	3.07	110.	0.00	42.0	93.7	800	3.94	34.157	1.00	27.144	93.0	1.316	
893	3.61	34.243	0.48	3.20	126.	0.00	44.0	83.4	1000	3.33	34.310	0.30	27.326	75.7	1.499	
992	3.35	34.304	0.31	3.26	134.	0.00	45.0	76.4	1200	2.95	34.412	0.24	27.443	64.7	1.655	
1163A	2.99	34.406	0.19	3.24	149.		43.6	65.5	1500	2.47	34.522	0.59	27.572	52.5	1.855	
1192	2.960	34.410	0.23	3.30	151.	0.00	45.3	65.0	1750	2.14	34.571	1.00	27.638	46.2	1.999	
1412A	2.60	34.498	0.46	3.19	161.		44.2	55.3	2000	1.90	34.605	1.45	27.685	41.9	2.129	
1659A	2.25	34.553		3.15	170.		44.2	48.4	2250	1.76	34.626	1.86	27.712	39.2	2.252	
1906A	1.97	34.593	1.28	3.06	182.		43.2	43.2	2500	1.64	34.641	2.22	27.733	37.2	2.369	
2155A	1.81	34.618	1.71	2.96	178.		42.0	40.1	2750	1.58	34.653	2.54	27.748	35.8	2.483	
2404A	1.68	34.636	2.08	2.89	176.		41.8	37.8	3000	1.53	34.664	2.78	27.759	34.8	2.595	
2651A	1.60	34.648	2.42	2.83	173.		40.6	36.4	3250	1.50	34.672	3.00	27.769	33.8	2.705	
2899A	1.55	34.660	2.70	2.74	171.		39.4	35.1	3500	1.48	34.678	3.18	27.775	33.3	2.815	
3146A	1.51	34.667	2.90	2.69	167.		39.4	34.3	3750	1.46	34.678	3.28	27.776	33.2	2.926	
3394A	1.481	34.678	3.13	2.63	167.		38.6	33.3	4000	1.47	34.681	3.41	27.778	33.0	3.038	
3640A	1.47	34.677	3.23	2.60	166.		38.2	33.3	4250	1.47	34.685	3.46	27.781	32.7	3.151	
3887A	1.46	34.678	3.35	2.57	162.		38.0	33.1	4500	1.49	34.686	3.49	27.781	32.7	3.265	
4135A	1.475	34.683	3.46	2.56	164.		38.3	32.9	4750	1.51	34.686	3.56	27.779	32.9	3.382	
4382A	1.470	34.686	3.47	2.54	163.		37.4	32.6	5000	1.54	34.688	3.63	27.778	33.0	3.502	
4630A	1.506	34.685	3.52	2.51	161.		37.2	32.9	5250	1.56	34.687	3.66	27.776	33.2	3.624	
4876A	1.521	34.686	3.60	2.51	156.		36.8	32.9	5500	1.59	34.688	3.67	27.775	33.5	3.749	
5123A	1.551	34.688	3.65	2.51	155.		37.0	33.0								
5321A	1.569	34.686	3.66	2.50	155.		37.0	33.3								
5471A	1.584	34.687	3.68	2.50	155.		36.7	33.3								
5571A	1.599	34.689	3.67	2.51	155.		36.7	33.3								
5620A	1.601	34.688	3.68		156.		36.6	33.4								

RV THOMAS WASHINGTON						INDOPAC LEG XVI									
LATITUDE 35 10.9N		LONGITUDE 161 01.1W		MO/DAY/YR 7/13/77		MESSENGER 0218 GMT		TIME	BOTTOM 5817M	WIND 120	SPEED 15KT	WEATHER 2	DOMINANT WAVES 120 6 7		
Z	T	S	O2	P04	SI03	NO2	NO3	DT	Z	T	S	O2	SIGT	DT	DD
1	22.60	34.055	5.20					453.7	0	22.60	34.055	5.20	23.354	453.7	0.000
11	21.70	34.177	5.37					420.8	10	21.79	34.137	5.34	23.642	426.2	0.044
21	18.43	34.131	5.85					342.3	20	18.78	34.134	5.80	24.434	350.6	0.083
41	15.29	34.250	6.47					263.4	30	16.65	34.180	6.20	24.987	297.9	0.115
70	13.23	34.296	6.06					218.6	50	14.46	34.288	6.41	25.559	243.5	0.170
99	11.77	34.141	5.87					203.0	75	12.91	34.270	6.02	25.866	214.4	0.227
124	11.66	34.149	5.77					200.4	100	11.77	34.143	5.86	25.987	202.8	0.280
149	11.24	34.162	5.72					192.1	125	11.64	34.150	5.77	26.016	200.1	0.331
174	11.04	34.190	5.64					186.6	150	11.23	34.165	5.71	26.103	191.8	0.381
200	10.71	34.159	5.84					183.3	200	10.71	34.159	5.84	26.193	183.3	0.477
250	10.38	34.160	5.69					177.7	250	10.38	34.160	5.69	26.252	177.7	0.569
299	9.81	34.158	5.20					168.6	300	9.80	34.159	5.19	26.349	168.5	0.659
399	8.30	34.077	4.65					151.7	400	8.28	34.077	4.64	26.528	151.5	0.825
498	6.36	33.989	3.59					132.3	500	6.33	33.990	3.57	26.734	132.0	0.974
600	5.21	34.000	2.51					118.0	600	5.21	34.000	2.51	26.881	118.0	1.106
699	4.43	34.068	1.53					104.6	700	4.42	34.070	1.52	27.024	104.5	1.224
797	3.99	34.149	0.95					94.1	800	3.98	34.153	0.93	27.137	93.8	1.330
895	3.65	34.241	0.51					83.9	1000	3.34	34.315	0.27	27.329	75.6	1.513
993	3.36	34.310	0.27					76.0	1200	2.98	34.412	0.27	27.440	65.0	1.669
1192	2.99	34.408	0.27					65.4							

LATITUDE		LONGITUDE		MO/DAY/YR		START TIME		LATITUDE		LONGITUDE		MO/DAY/YR		START TIME	
35 09.6N		162 01.3W		07/12/77		1324 GMT		35 10.9N		161 01.1W		07/13/77		0149 GMT	
Z	T	S	SIGMA T	DT	DD			Z	T	S	SIGMA T	DT	DD		
0	22.42	34.00	23.363	452.8	0.000			0	22.52	33.96	23.304	458.4	0.000		
10	22.41	34.00	23.366	452.5	0.045			10	21.02	33.96	23.719	418.8	0.044		
20	19.98	34.01	24.034	388.8	0.087			20	18.63	34.03	24.394	354.4	0.083		
30	17.63	34.10	24.694	325.9	0.123			30	17.29	34.19	24.844	311.6	0.116		
40	15.76	34.10	25.130	284.3	0.154			40	15.39	34.20	25.290	269.2	0.145		
50	13.83	34.13	25.571	242.5	0.180			50	14.62	34.22	25.473	251.7	0.171		
75	12.16	34.17	25.934	207.9	0.237			75	12.78	34.13	25.783	222.3	0.231		
100	11.53	34.16	26.045	197.3	0.288			100	11.73	34.10	25.962	205.3	0.285		
125	11.31	34.17	26.094	192.7	0.338			125	11.51	34.12	26.018	199.9	0.336		
150	10.96	34.16	26.149	187.5	0.386			150	11.16	34.14	26.098	192.4	0.386		
175	10.68	34.14	26.184	184.2	0.433			175	10.89	34.13	26.139	188.5	0.435		
200	10.41	34.13	26.223	180.4	0.480			200	10.68	34.15	26.191	183.5	0.482		
225	10.25	34.14	26.259	177.1	0.526			225	10.42	34.12	26.214	181.3	0.529		
250	10.12	34.15	26.289	174.2	0.571			250	10.28	34.13	26.246	178.3	0.575		
275	9.94	34.15	26.319	171.3	0.615			275	10.03	34.13	26.289	174.2	0.621		
300	9.66	34.15	26.366	166.8	0.659			300	9.72	34.12	26.333	170.0	0.665		
350	8.93	34.10	26.446	159.3	0.744			350	8.97	34.08	26.424	161.4	0.751		
400	8.22	34.06	26.525	151.8	0.825			400	8.23	34.04	26.508	153.5	0.833		
450	7.32	34.02	26.625	142.3	0.902			450	7.32	34.00	26.609	143.8	0.911		
500	6.51	34.00	26.720	133.3	0.975			500	6.33	33.97	26.720	133.3	0.984		
550	5.71	33.98	26.806	125.2	1.043			550	5.73	33.96	26.787	126.9	1.052		
600	5.12	34.00	26.892	117.0	1.106			600	5.19	33.98	26.868	119.3	1.117		
650	4.72	34.04	26.969	109.7	1.166			650	4.72	34.01	26.945	111.9	1.178		
700	4.38	34.07	27.030	103.9	1.223			700	4.39	34.05	27.013	105.5	1.236		
750	4.15	34.11	27.086	98.6	1.277			750	4.14	34.10	27.079	99.3	1.290		
800	3.92	34.17	27.157	91.8	1.328			800	3.98	34.14	27.127	94.7	1.342		
850	3.76	34.21	27.205	87.3	1.376			850	3.78	34.18	27.179	89.7	1.392		
900	3.61	34.25	27.252	82.9	1.422			900	3.64	34.22	27.225	85.4	1.439		
950	3.46	34.29	27.298	78.5	1.466			950	3.48	34.26	27.272	80.9	1.484		
1000	3.34	34.31	27.326	75.9	1.509			1000	3.36	34.30	27.316	76.8	1.527		
1100	3.12	34.38	27.402	68.6	1.588			1100	3.14	34.36	27.384	70.3	1.608		
1200	2.92	34.42	27.452	63.9	1.662			1200	2.97	34.39	27.424	66.6	1.685		
1300	2.76	34.46	27.498	59.5	1.732										
1400	2.59	34.50	27.545	55.1	1.797										
1500	2.47	34.52	27.571	52.6	1.859										
1600	2.316	34.540	27.600	49.9	1.918										
1700	2.203	34.558	27.624	47.6	1.975										
1800	2.070	34.576	27.649	45.2	2.030										
1900	1.981	34.590	27.667	43.5	2.082										
2000	1.901	34.603	27.684	41.9	2.133										
2100	1.844	34.612	27.695	40.8	2.183										
2200	1.783	34.623	27.709	39.6	2.232										
2300	1.738	34.630	27.718	38.7	2.280										
2400	1.694	34.637	27.727	37.9	2.327										
2500	1.658	34.640	27.732	37.4	2.373										
2600	1.621	34.647	27.740	36.6	2.419										
2700	1.599	34.649	27.743	36.3	2.465										
2800	1.568	34.653	27.749	35.8	2.510										
2900	1.545	34.658	27.754	35.2	2.555										
3000	1.528	34.661	27.758	34.9	2.599										
3100	1.511	34.663	27.761	34.6	2.644										
3200	1.495	34.667	27.765	34.2	2.688										
3300	1.489	34.669	27.767	34.0	2.732										
3400	1.480	34.672	27.770	33.7	2.777										
3500	1.475	34.672	27.771	33.7	2.821										
3600	1.474	34.676	27.774	33.4	2.865										
3700	1.467	34.678	27.776	33.2	2.910										
3800	1.468	34.677	27.775	33.3	2.954										
3900	1.468	34.679	27.777	33.1	2.999										
4000	1.470	34.680	27.777	33.1	3.044										
4100	1.476	34.681	27.778	33.0	3.089										
4200	1.477	34.681	27.778	33.0	3.135										
4300	1.481	34.683	27.779	32.9	3.181										
4400	1.487	34.683	27.779	32.9	3.227										
4500	1.493	34.683	27.778	33.0	3.273										
4600	1.498	34.683	27.778	33.0	3.320										
4700	1.508	34.686	27.779	32.9	3.367										
4800	1.515	34.685	27.778	33.0	3.414										
4900	1.525	34.687	27.779	32.9	3.462										
5000	1.531	34.687	27.779	32.9	3.510										
5100	1.537	34.688	27.779	32.9	3.558										
5200	1.549	34.688	27.778	33.0	3.607										
5300	1.561	34.690	27.779	32.9	3.656										
5400	1.571	34.689	27.777	33.1	3.705										
5500	1.585	34.689	27.776	33.2	3.755										
5600	1.595	34.689	27.775	33.2	3.806										

RV THOMAS WASHINGTON

INDOPAC LEG XVI

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LATITUDE		LONGITUDE		MO/DAY/YR		MESSENGER		TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES		
35 10.8N		159 59.2W		7/13/77		0955 1440		GMT	5879M	120	16KT	1	120 8 8		
Z	T	S	O2	P04	SI03	N02	N03	DT	Z	T	S	O2	SIGT	DT	DD
1	22.93	34.337	5.11	0.09		0.00	0.1	442.3	0	22.93	34.337	5.11	23.473	442.3	0.000
16	19.88	34.298	5.68	0.08		0.00	0.0	365.4	10	21.39	34.276	5.39	23.856	405.7	0.042
21	18.32	34.373	5.99	0.08		0.00	0.1	322.1	20	18.63	34.357	5.93	24.643	350.7	0.079
41	15.54	34.399	6.33	0.10		0.00	0.0	257.8	30	16.65	34.421	6.14	25.171	280.5	0.110
71	13.62	34.374	5.63	0.36		0.14	4.6	220.4	50	14.78	34.405	6.15	25.580	241.5	0.162
100	12.51	34.246	5.84	0.41		0.29	4.8	208.7	75	13.42	34.355	5.65	25.828	218.0	0.220
125	12.27	34.278	5.57	0.49		0.04	7.4	201.9	100	12.51	34.246	5.84	25.926	208.7	0.274
150	11.89	34.248	5.67	0.59		0.03	7.3	197.2	125	12.27	34.278	5.57	25.997	201.9	0.326
175	11.80	34.270	5.56	0.65		0.01	8.8	194.0	150	11.89	34.248	5.67	26.046	197.2	0.377
200	11.48	34.257	5.63	0.69		0.01	9.4	189.3	200	11.48	34.257	5.63	26.130	189.3	0.476
250	10.82	34.191	5.83	0.73		0.01	10.2	182.8	250	10.82	34.191	5.83	26.198	182.8	0.571
298	10.28	34.144	5.80	0.82		0.00	11.3	177.3	300	10.26	34.145	5.79	26.260	177.0	0.664
399	8.99	34.122	4.91	1.26		0.00	18.0	158.6	400	8.97	34.122	4.90	26.456	158.4	0.839
497	7.00	34.016	3.90	1.88		0.00	26.6	138.4	500	6.94	34.015	3.86	26.672	137.8	0.994
596	5.38	33.991	2.63	2.45		0.00	33.9	120.6	600	5.34	33.993	2.59	26.860	120.0	1.130
694	4.55	34.047	1.72	2.80		0.00	38.6	107.4	700	4.51	34.053	1.67	27.002	106.6	1.251
793	4.02	34.222 U	0.98	3.05		0.00	42.4		800	3.99	34.144	0.94	27.128	94.6	1.358
891	3.67	34.224	0.57	3.17		0.00	43.6	85.4	1000	3.38	34.297	0.60	27.310	77.3	1.544
992	3.40	34.291	0.61	3.18		0.00	44.5	77.8	1200	2.95	34.398	0.25	27.431	65.9	1.703
1190	2.96	34.392	0.24	3.18		0.00	43.7	66.3	1500	2.57	34.518	0.57	27.561	53.6	1.906
1385A	2.76	34.480	0.37	3.21			42.8	58.0	1750	2.21	34.573	1.07	27.633	46.7	2.053
1632A	2.35	34.550	0.85	3.16			44.1	49.4	2000	1.98	34.604	1.46	27.677	42.5	2.186
1879A	2.09	34.589	1.29	3.07			42.2	44.4	2250	1.80	34.625	1.81	27.708	39.5	2.310
2125A	1.88	34.615	1.63	3.00			41.4	40.9	2500	1.68	34.641	2.23	27.730	37.4	2.429
2372A	1.73	34.634	2.00	2.96			40.8	38.3	2750	1.59	34.654	2.54	27.747	35.9	2.543
2619A	1.64	34.647	2.42	2.85			40.0	36.7	3000	1.53	34.664	2.76	27.760	34.7	2.655
2865A	1.56	34.659	2.63	2.76			39.2	35.3	3250	1.50	34.670	2.96	27.767	34.0	2.766
3111A	1.51	34.667	2.86	2.74			38.9	34.3	3500	1.48	34.676	3.13	27.773	33.4	2.876
3357A	1.49	34.671	3.03	2.69			38.6	33.9	3750	1.47	34.681	3.28	27.778	32.9	2.987
3604A	1.467	34.679	3.20	2.65			37.9	33.1	4000	1.47	34.683	3.38	27.779	32.9	3.098
3851A	1.467	34.682	3.33	2.64			38.2	32.9	4250	1.48	34.685	3.44	27.780	32.8	3.212
4097A	1.47	34.682	3.40	2.61			36.6	32.9	4500	1.49	34.687	3.52	27.781	32.7	3.326
4344A	1.48	34.685	3.46	2.57			37.0	32.7	4750	1.51	34.688	3.59	27.780	32.8	3.443
4591A	1.489	34.687	3.55	2.57			36.8	32.7	5000	1.54	34.689	3.61	27.779	32.9	3.562
4839A	1.521	34.687	3.60	2.55			36.2	32.9	5250	1.57	34.690	3.65	27.778	33.0	3.684
5086A	1.545	34.689	3.61	2.54			37.0	32.9	5500	1.60	34.689	3.64	27.775	33.3	3.809
5334A	1.58	34.690	3.66	2.55			36.8	33.1	5750	1.62	34.691	3.69	27.775	33.3	3.936
5533A	1.599	34.688	3.64	2.55			37.0	33.3							
5682A	1.612		3.69	2.51			36.8								
5782A	1.626	34.691	3.69	2.54			36.7	33.3							
5832A	1.64	34.692	3.70	2.53			36.4	33.3							

RV THOMAS WASHINGTON

INDOPAC LEG XVI

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LATITUDE		LONGITUDE		MO/DAY/YR		MESSENGER		TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES		
35 10.4N		158 59.6W		7/13/77		2110		GMT	5928M	120	15KT	1	120 7 7		
Z	T	S	O2	P04	SI03	N02	N03	DT	Z	T	S	O2	SIGT	DT	DD
1	23.23	34.569	5.08					433.8	0	23.23	34.569	5.08	23.562	433.8	0.000
11	23.13	34.572	5.10					430.8	10	23.14	34.573	5.10	23.590	431.1	0.043
21	21.18	34.583	5.39					377.8	20	21.41	34.583	5.36	24.083	384.0	0.084
41	17.80	34.448	5.89					304.5	30	19.54	34.529	5.64	24.542	340.3	0.120
71	15.06	34.356	5.99					250.9	50	16.77	34.419	5.92	25.141	283.3	0.183
100	13.46	34.243	5.80					226.9	75	14.77	34.337	5.97	25.530	246.3	0.250
125	13.05	34.261	5.57					217.7	100	13.46	34.243	5.80	25.734	226.9	0.309
150	12.67	34.224	5.61					213.3	125	13.05	34.261	5.57	25.831	217.7	0.366
175	12.26	34.212	5.64					206.6	150	12.67	34.224	5.61	25.877	213.3	0.421
200	12.04	34.217	5.65					202.2	200	12.04	34.217	5.65	25.994	202.2	0.527
250	11.57	34.239	5.46					192.2	250	11.57	34.239	5.46	26.099	192.2	0.628
299	10.71	34.163	5.90					183.0	300	10.70	34.164	5.90	26.198	182.8	0.725
399	9.81	34.174	5.03					167.4	400	9.79	34.174	5.02	26.362	167.2	0.907
497	7.98	34.070	4.36					147.7	500	7.92	34.067	4.33	26.574	147.1	1.073
597	6.10	33.986	3.33					129.3	600	6.06	33.987	3.29	26.767	128.8	1.219
695	4.91	34.024	2.08					112.9	700	4.86	34.029	2.03	26.943	112.1	1.347
795	4.18	34.108	1.17					99.0	800	4.16	34.113	1.13	27.087	98.5	1.459
894	3.81	34.199	0.62					88.6	1000	3.48	34.288	0.34	27.294	78.6	1.651
991	3.50	34.285	0.34					79.2	1200	3.08	34.405	0.23	27.426	66.4	1.812
1191	3.10	34.400	0.23					66.9							

LATITUDE		LONGITUDE	MO/DAY/YR		START TIME	LATITUDE		LONGITUDE	MO/DAY/YR		START TIME
35 10.4N		159 58.7W	07/13/77		0808 GMT	35 10.4N		158 59.7W	07/13/77		2032 GMT
Z	T	S	SIGMA T	DT	DD	Z	T	S	SIGMA T	DT	DD
0	22.88	34.32	23.474	442.2	0.000	0	23.19	34.56	23.567	433.3	0.000
10	22.92	34.30	23.448	444.7	0.044	10	23.17	34.56	23.572	432.8	0.043
20	20.38	34.20	24.073	385.1	0.086	20	22.69	34.45	23.627	427.6	0.086
30	17.54	34.37	24.922	304.2	0.120	30	20.00	34.35	24.287	364.6	0.126
40	16.22	34.42	25.271	270.9	0.149	40	18.24	34.39	24.766	319.0	0.160
50	15.02	34.43	25.548	244.6	0.175	50	17.25	34.43	25.037	293.2	0.191
75	13.58	34.34	25.784	222.2	0.234	75	15.01	34.31	25.458	253.2	0.260
100	12.79	34.31	25.920	209.2	0.289	100	13.46	34.23	25.724	227.9	0.321
125	12.36	34.28	25.981	203.4	0.341	125	13.01	34.26	25.838	217.1	0.377
150	12.06	34.30	26.054	196.5	0.392	150	12.61	34.21	25.878	213.2	0.432
175	11.77	34.27	26.086	193.5	0.441	175	12.16	34.20	25.958	205.7	0.485
200	11.43	34.23	26.118	190.4	0.490	200	11.98	34.21	26.000	201.7	0.537
225	11.07	34.21	26.168	185.6	0.539	225	11.79	34.23	26.051	196.8	0.588
250	10.85	34.21	26.208	181.9	0.586	250	11.55	34.25	26.111	191.0	0.638
275	10.80	34.22	26.225	180.3	0.633	275	10.96	34.18	26.165	186.0	0.687
300	10.49	34.21	26.272	175.8	0.679	300	10.64	34.17	26.214	181.3	0.734
350	9.92	34.17	26.338	169.5	0.769	350	10.42	34.19	26.268	176.2	0.827
400	9.10	34.12	26.435	160.4	0.855	400	9.63	34.16	26.379	165.6	0.917
450	8.49	34.10	26.515	152.8	0.937	450	8.83	34.11	26.470	157.0	1.001
500	7.62	34.05	26.605	144.2	1.015	500	7.77	34.05	26.584	146.2	1.081
550	6.64	33.99	26.694	135.7	1.089	550	6.79	34.00	26.682	136.9	1.156
600	5.91	33.98	26.781	127.5	1.159	600	5.85	33.99	26.796	126.1	1.226
650	5.25	34.00	26.877	118.4	1.224	650	5.24	34.00	26.878	118.3	1.291
700	4.76	34.03	26.957	110.9	1.285	700	4.75	34.04	26.966	110.0	1.351
750	4.36	34.08	27.040	103.0	1.342	750	4.37	34.08	27.059	103.1	1.408
800	4.08	34.13	27.109	96.4	1.396	800	4.10	34.13	27.107	96.6	1.462
850	3.88	34.18	27.169	90.7	1.446	850	3.92	34.16	27.149	92.6	1.512
900	3.74	34.22	27.215	86.3	1.494	900	3.76	34.21	27.205	87.3	1.561
950	3.58	34.26	27.263	81.8	1.539	950	3.61	34.25	27.252	82.9	1.607
1000	3.40	34.30	27.312	77.2	1.583	1000	3.46	34.29	27.298	78.5	1.651
1100	3.17	34.36	27.381	70.6	1.664	1100	3.25	34.35	27.366	72.0	1.734
1200	2.98	34.41	27.439	65.1	1.740	1186	3.11	34.40	27.419	67.0	1.801
1300	2.85	34.46	27.490	60.3	1.811						
1400	2.72	34.49	27.526	56.9	1.878						
1500	2.57	34.52	27.563	53.4	1.941						
1600	2.405	34.543	27.595	50.3	2.002						
1700	2.268	34.565	27.624	47.6	2.059						
1800	2.157	34.580	27.645	45.6	2.114						
1900	2.049	34.595	27.666	43.7	2.168						
2000	1.956	34.604	27.680	42.3	2.219						
2100	1.895	34.614	27.693	41.1	2.269						
2200	1.832	34.622	27.704	40.0	2.319						
2300	1.767	34.630	27.715	38.9	2.367						
2400	1.720	34.638	27.725	38.0	2.414						
2500	1.678	34.642	27.732	37.4	2.461						
2600	1.636	34.648	27.740	36.6	2.507						
2700	1.602	34.652	27.745	36.1	2.552						
2800	1.579	34.657	27.751	35.5	2.598						
2900	1.559	34.660	27.755	35.2	2.642						
3000	1.539	34.663	27.759	34.8	2.687						
3100	1.517	34.666	27.763	34.4	2.732						
3200	1.504	34.669	27.766	34.1	2.776						
3300	1.495	34.672	27.769	33.8	2.820						
3400	1.486	34.674	27.771	33.6	2.864						
3500	1.477	34.674	27.772	33.6	2.908						
3600	1.471	34.678	27.776	33.2	2.953						
3700	1.471	34.679	27.777	33.1	2.997						
3800	1.470	34.679	27.777	33.1	3.041						
3900	1.471	34.682	27.779	32.9	3.086						
4000	1.476	34.681	27.778	33.0	3.131						
4100	1.477	34.682	27.779	32.9	3.176						
4200	1.481	34.683	27.779	32.9	3.222						
4300	1.486	34.684	27.779	32.9	3.267						
4400	1.490	34.684	27.779	32.9	3.313						
4500	1.496	34.685	27.780	32.9	3.360						
4600	1.502	34.686	27.780	32.8	3.406						
4700	1.508	34.686	27.779	32.9	3.453						
4800	1.517	34.687	27.780	32.8	3.500						
4900	1.528	34.687	27.779	32.9	3.548						
5000	1.535	34.688	27.779	32.9	3.596						
5100	1.544	34.688	27.778	32.9	3.644						
5200	1.553	34.688	27.778	33.0	3.693						
5300	1.564	34.689	27.778	33.0	3.742						
5400	1.574	34.689	27.777	33.1	3.792						
5500	1.587	34.690	27.777	33.1	3.842						
5600	1.599	34.690	27.776	33.2	3.893						
5700	1.611	34.690	27.775	33.3	3.944						
5800	1.624	34.690	27.774	33.4	3.995						

RV THOMAS WASHINGTON

INDOPAC LEG XVI

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LATITUDE		LONGITUDE		MO/DAY/YR		MESSENGER TIME		BOTTOM		WIND		SPEED		WEATHER		DOMINANT WAVES	
35 09.2N		158 00.0W		7/14/77		0440 1010		600M		090		16KT		1		100 8 8	
Z	T	S	02	P04	SI03	N02	N03	DT	Z	T	S	02	SIGT	DT	DD		
1	23.18	34.534	5.05	0.06	6.1	0.01	0.0	434.9	0	23.18	34.534	5.05	23.550	434.9	0.000		
16	23.18	34.529	5.13	0.06	6.1	0.05	0.0	435.3	10	23.18	34.532	5.10	23.548	435.1	0.044		
21	23.17	34.528	5.11	0.06	5.9	0.04	0.1	435.1	20	23.17	34.529	5.11	23.548	435.1	0.067		
41	17.18	34.453	6.16	0.07	6.8	0.03	0.0	289.9	30	20.80	34.467	5.52	24.163	376.5	0.128		
70	14.49	34.354	6.38	0.13	7.3	0.04	2.4	239.3	50	15.89	34.410	6.23	25.338	264.5	0.192		
99	13.28	34.318	5.83	0.38	8.9	0.43	5.0	218.0	75	14.22	34.346	6.30	25.654	234.5	0.255		
123	12.78	34.310	5.69	0.49	9.9	0.08	7.4	209.0	100	13.25	34.319	5.82	25.833	217.5	0.312		
148	12.28	34.275	5.24	0.65	11.2	0.02	8.6	202.3	125	12.74	34.308	5.69	25.928	208.4	0.366		
173	11.81	34.241	5.60	0.63	11.	0.01	9.2	196.3	150	12.24	34.272	5.65	25.998	201.8	0.418		
198	11.56	34.247	5.39	0.73	12.	0.02	10.9	191.5	200	11.54	34.249	5.39	26.111	191.1	0.519		
247	11.11	34.253	5.28	0.85	15.	0.01	13.0	183.2	250	11.06	34.252	5.28	26.201	182.5	0.615		
296	10.29	34.204	5.26	1.01	19.	0.00	17.0	173.0	300	10.23	34.202	5.24	26.309	172.3	0.706		
396	8.90	34.122	4.68	1.34	28.	0.00	22.4	157.2	400	8.64	34.119	4.66	26.475	156.6	0.878		
495	7.31	34.032	4.09	1.75	42.	0.00	29.3	141.3	500	7.22	34.029	4.04	26.645	140.5	1.034		
596	5.67	33.987	2.99	2.31	63.	0.00	35.5	124.2	600	5.62	33.989	2.94	26.823	123.5	1.173		
695	4.69	34.041	1.88	2.65	83.	0.00	40.3	109.3	700	4.65	34.046	1.83	26.980	108.6	1.296		
794	4.05	34.121	1.07	3.04	106.	0.00	44.4	96.8	800	4.03	34.128	1.03	27.112	96.1	1.406		
893	3.76	34.214	0.58	3.16	119.	0.01	45.2	87.0	1000	3.45	34.299	0.31	27.306	77.7	1.594		
991	3.47	34.292	0.31	3.23	132.	0.00	46.4	78.4	1200	3.04	34.412	0.25	27.434	65.6	1.753		
1190	3.06	34.407	0.25	3.27	147.	0.02	46.2	66.1	1500	2.59	34.520	0.61	27.560	53.6	1.957		
1261A	2.95	34.439	0.28	3.08	152.		44.8	62.7	1750	2.22	34.576	1.12	27.636	46.5	2.103		
1508A	2.58	34.522	0.63	3.19	159.		45.3	53.3	2000	1.95	34.605	1.45	27.680	42.3	2.236		
1757A	2.21	34.576	1.13	3.06	172.		43.2	46.3	2250	1.77	34.628	1.82	27.712	39.2	2.359		
2005A	1.95	34.604	1.46	3.01	176.		41.7	42.2	2500	1.67	34.642	2.15	27.732	37.3	2.477		
2253A	1.77	34.627	1.82	2.92	180.		40.7	39.2	2750	1.60	34.656	2.47	27.748	35.8	2.591		
2500A	1.67	34.642	2.15	2.85	176.		40.5	37.3	3000	1.53	34.666	2.77	27.761	34.6	2.703		
2748A	1.60	34.655	2.47	2.75	177.		40.4	35.8	3250	1.50	34.671	2.96	27.767	34.0	2.814		
2996A	1.53	34.665	2.77	2.75	172.		38.7	34.6	3500	1.47	34.678	3.16	27.775	33.3	2.924		
3244A	1.50	34.670	2.95	2.68	170.		37.8	34.0	3750	1.46	34.682	3.26	27.779	32.9	3.034		
3492A	1.472	34.677	3.16	2.65	164.		37.6	33.3	4000	1.47	34.686	3.39	27.781	32.7	3.145		
3740A	1.462	34.681	3.25	2.61	167.		37.3	32.9	4250	1.48	34.689	3.46	27.783	32.5	3.258		
3988A	1.47	34.685	3.38	2.60	162.		37.3	32.7	4500	1.48	34.688	3.47	27.782	32.6	3.372		
4236A	1.48	34.688	3.46	2.56	166.		37.2	32.5	4750	1.52	34.691	3.55	27.782	32.7	3.469		
4483A	1.48	34.687	3.47	2.56	159.		36.3	32.6	5000	1.53	34.690	3.60	27.780	32.8	3.608		
4731A	1.52	34.690	3.54	2.55	159.		37.2	32.6	5250	1.56	34.694	3.64	27.781	32.7	3.729		
4979A	1.532	34.689	3.60	2.54	155.		37.6	32.8	5500	1.58	34.694	3.68	27.780	32.8	3.853		
5227A	1.56	34.693	3.64	2.54	156.		37.0	32.7	5750	1.62	34.694	3.72	27.777	33.1	3.979		
5474A	1.58	34.702 U	3.68	2.54	158.		37.4		6000	1.65	34.695	3.72	27.776	33.2	4.109		
5672A	1.610	34.695	3.71	2.51	154.		36.0	32.9									
5822A	1.631	34.691	3.74	2.54	152.		36.5	33.3									
5921A	1.645	34.693	3.77	2.45	153.		37.0	33.3									
5970A	1.65	34.695	3.72	2.54	151.		37.4	33.2									

RV THOMAS WASHINGTON

INDOPAC LEG XVI

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LATITUDE		LONGITUDE		MO/DAY/YR		MESSENGER TIME		BOTTOM		WIND		SPEED		WEATHER		DOMINANT WAVES	
35 10.4N		157 02.3W		7/14/77		1642 GMT		5998M						1		100 6 6	
Z	T	S	02	P04	SI03	N02	N03	DT	Z	T	S	02	SIGT	DT	DD		
1	22.66	34.353	5.17					433.8	0	22.66	34.353	5.17	23.562	433.8	0.000		
11	21.65	34.292	5.30					411.2	10	21.77	34.300	5.28	23.772	413.8	0.042		
21	20.24	34.204	5.51					381.3	20	20.40	34.212	5.49	24.077	384.6	0.082		
41	16.63	34.267	6.21					291.1	30	18.59	34.209	5.83	24.540	340.5	0.119		
71	14.03	34.250	6.39					237.6	50	15.61	34.277	6.26	25.300	268.2	0.180		
100	12.70	34.174	5.96					217.5	75	13.79	34.241	6.34	25.663	233.7	0.243		
125	12.03	34.147	5.72					207.2	100	12.70	34.174	5.96	25.833	217.5	0.300		
150	11.81	34.178	5.75					201.0	125	12.03	34.147	5.72	25.941	207.2	0.354		
175	11.36	34.155	5.74					196.2	150	11.81	34.178	5.75	26.007	201.0	0.406		
200	11.16	34.161	5.67					190.8	200	11.16	34.161	5.67	26.114	190.8	0.506		
250	10.68	34.180	5.52					181.2	250	10.68	34.180	5.52	26.215	181.2	0.601		
299	10.01	34.121	5.65					174.6	300	10.00	34.122	5.64	26.287	174.4	0.693		
398	8.74	34.106	4.70					156.0	400	8.71	34.105	4.69	26.484	155.7	0.865		
497	7.22	34.020	4.02					141.0	500	7.17	34.019	3.99	26.644	140.5	1.021		
597	5.66	33.975	2.91					125.0	600	5.62	33.977	2.87	26.813	124.4	1.160		
695	4.58	34.032	1.74					108.8	700	4.54	34.037	1.69	26.985	108.1	1.284		
795	4.05	34.125	0.99					96.5	800	4.03	34.131	0.96	27.114	95.9	1.393		
892	3.74	34.224	0.50					86.0									

LATITUDE		LONGITUDE	MO/DAY/YR		START TIME	LATITUDE		LONGITUDE	MO/DAY/YR		START TIME
35 09.0N		157 59.8W	07/14/77		0310 GMT	35 10.2N		157 02.1W	07/14/77		1608 GMT
Z	T	S	SIGMA T	DT	DD	Z	T	S	SIGMA T	DT	DD
0	23.35	34.56	23.520	437.7	0.000	0	22.67	34.32	23.534	436.4	0.000
10	23.31	34.55	23.524	437.4	0.044	10	22.65	34.34	23.555	434.4	0.044
20	23.16	34.53	23.553	434.7	0.087	20	21.15	34.13	23.813	409.9	0.086
30	20.88	34.40	24.091	383.3	0.128	30	19.10	34.19	24.398	354.1	0.124
40	18.29	34.43	24.784	317.3	0.164	40	17.63	34.20	24.770	318.6	0.158
50	16.10	34.31	25.214	276.4	0.193	50	15.78	34.17	25.179	279.7	0.188
75	14.17	34.33	25.653	234.6	0.258	75	13.84	34.22	25.638	236.1	0.253
100	13.19	34.31	25.840	216.8	0.315	100	12.71	34.15	25.812	219.5	0.310
125	12.71	34.31	25.936	207.7	0.369	125	12.06	34.14	25.930	208.3	0.365
150	12.26	34.27	25.993	202.3	0.421	150	11.83	34.17	25.997	201.9	0.417
175	11.73	34.23	26.062	195.7	0.471	175	11.39	34.13	26.048	197.1	0.467
200	11.53	34.25	26.115	190.7	0.521	200	11.14	34.15	26.109	191.3	0.517
225	11.20	34.25	26.176	184.9	0.569	225	10.76	34.13	26.162	186.3	0.565
250	10.97	34.25	26.217	181.0	0.616	250	10.47	34.12	26.205	182.2	0.613
275	10.66	34.23	26.257	177.2	0.662	275	10.08	34.08	26.241	178.7	0.659
300	10.35	34.22	26.304	172.8	0.708	300	9.97	34.12	26.291	174.0	0.705
350	9.65	34.17	26.384	165.2	0.796	350	9.42	34.13	26.390	164.6	0.793
400	8.84	34.12	26.476	156.5	0.880	400	8.73	34.10	26.478	156.3	0.877
450	8.01	34.07	26.564	148.1	0.960	450	8.00	34.05	26.550	149.4	0.957
500	7.19	34.04	26.659	139.1	1.035	500	7.06	34.01	26.653	139.6	1.033
550	6.34	34.00	26.742	131.2	1.107	550	6.12	33.98	26.754	130.0	1.104
600	5.62	33.99	26.825	123.4	1.174	600	5.40	33.98	26.843	121.6	1.171
650	5.00	34.02	26.922	114.2	1.237	650	4.81	34.01	26.935	112.9	1.233
700	4.60	34.05	26.990	107.7	1.296	700	4.45	34.05	27.006	106.1	1.291
750	4.32	34.09	27.052	101.8	1.352	750	4.18	34.10	27.075	99.6	1.345
800	4.08	34.13	27.109	96.4	1.405	800	4.01	34.13	27.116	95.7	1.398
850	3.88	34.19	27.177	89.9	1.455	850	3.84	34.19	27.181	89.6	1.448
900	3.72	34.23	27.225	85.4	1.502	900	3.70	34.23	27.227	85.2	1.495
950	3.58	34.27	27.271	81.1	1.548	950	3.54	34.27	27.275	80.7	1.540
1000	3.43	34.31	27.317	76.7	1.591	1000	3.38	34.30	27.314	77.0	1.583
1100	3.20	34.38	27.394	69.3	1.671	1100	3.13	34.36	27.385	70.2	1.664
1200	3.03	34.42	27.442	64.8	1.746	1200	2.94	34.40	27.434	65.6	1.740
1300	2.90	34.46	27.486	60.7	1.817						
1400	2.76	34.50	27.530	56.5	1.885						
1500	2.62	34.52	27.558	53.8	1.948						
1600	2.464	34.544	27.591	50.7	2.009						
1700	2.310	34.567	27.622	47.6	2.067						
1800	2.193	34.581	27.643	45.8	2.123						
1900	2.087	34.596	27.663	43.9	2.176						
2000	1.996	34.606	27.679	42.4	2.228						
2100	1.913	34.616	27.693	41.0	2.279						
2200	1.849	34.627	27.707	39.7	2.328						
2300	1.791	34.631	27.714	39.0	2.376						
2400	1.731	34.639	27.725	38.0	2.424						
2500	1.693	34.644	27.732	37.3	2.470						
2600	1.648	34.649	27.739	36.6	2.517						
2700	1.618	34.655	27.747	36.0	2.562						
2800	1.594	34.659	27.752	35.5	2.607						
2900	1.570	34.662	27.756	35.1	2.652						
3000	1.543	34.665	27.760	34.7	2.697						
3100	1.526	34.668	27.764	34.3	2.741						
3200	1.511	34.672	27.768	33.9	2.785						
3300	1.500	34.673	27.770	33.8	2.829						
3400	1.493	34.676	27.772	33.5	2.874						
3500	1.483	34.677	27.774	33.4	2.918						
3600	1.480	34.679	27.776	33.2	2.962						
3700	1.477	34.681	27.778	33.0	3.006						
3800	1.475	34.681	27.778	33.0	3.051						
3900	1.476	34.683	27.779	32.9	3.095						
4000	1.476	34.683	27.779	32.9	3.140						
4100	1.480	34.684	27.780	32.8	3.185						
4200	1.483	34.684	27.780	32.8	3.231						
4300	1.489	34.685	27.780	32.8	3.276						
4400	1.494	34.686	27.780	32.8	3.322						
4500	1.502	34.687	27.781	32.7	3.368						
4600	1.506	34.688	27.781	32.7	3.415						
4700	1.514	34.688	27.781	32.7	3.462						
4800	1.519	34.689	27.781	32.7	3.509						
4900	1.527	34.690	27.781	32.7	3.557						
5000	1.537	34.690	27.781	32.8	3.604						
5100	1.549	34.691	27.780	32.8	3.653						
5200	1.558	34.691	27.780	32.8	3.701						
5300	1.570	34.692	27.780	32.8	3.751						
5400	1.579	34.690	27.777	33.0	3.800						
5500	1.590	34.692	27.778	33.0	3.850						
5600	1.601	34.693	27.778	33.0	3.901						
5700	1.610	34.693	27.778	33.0	3.951						
5800	1.624	34.693	27.777	33.1	4.003						
5900	1.637	34.693	27.776	33.2	4.054						

RV THOMAS WASHINGTON

INDOPAC LEG XVI

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LATITUDE		LONGITUDE		MO/DAY/YR		MESSENGER		TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES		
35 09.9N		156 02.4W		7/15/77		0051 0638		GMT	5801M	100	12KT	1	100 6 6		
Z	T	S	O2	P04	S103	N02	N03	DT	Z	T	S	O2	SIGT	DT	DD
1	22.92	34.307	5.12	0.09	6.0	0.01	0.0	444.2	0	22.92	34.307	5.12	23.453	444.2	0.000
16	22.59	34.286	5.21	0.09	6.1	0.00	0.0	436.7	10	22.72	34.295	5.17	23.500	439.7	0.044
21	20.14	34.229	5.59	0.09	6.1	0.00	0.0	376.9	20	20.65	34.236	5.51	24.027	389.4	0.086
41	16.78	34.302	6.04	0.10	6.7	0.00	0.0	291.9	30	17.92	34.261	5.79	24.744	321.0	0.121
71	13.74	34.191	6.18	0.20	7.2	0.04	0.1	236.2	50	15.65	34.283	6.08	25.296	268.6	0.181
100	12.54	34.094	5.76	0.40	8.6	0.10	3.8	220.4	75	13.50	34.174	6.13	25.673	232.7	0.244
124	12.27	34.136	5.69	0.49	9.	0.04	5.1	212.4	100	12.54	34.094	5.76	25.802	220.4	0.301
149	12.08	34.186	5.57	0.57	10.	0.02	6.8	205.2	125	12.26	34.140	5.68	25.890	212.1	0.356
174	11.75	34.183	5.64	0.62	11.	0.02	7.7	199.5	150	12.07	34.187	5.57	25.965	205.0	0.409
199	11.52	34.222	5.49	0.72	12.	0.02	8.8	192.6	200	11.50	34.222	5.50	26.097	192.4	0.510
248	10.73	34.144	5.75	0.77	14.	0.01	10.0	184.7	250	10.72	34.147	5.73	26.182	184.4	0.607
297	10.46	34.206	5.24	0.97	17.	0.01	12.6	175.6	300	10.43	34.207	5.23	26.279	175.1	0.700
396	9.04	34.121	4.89	1.29	26.	0.01	18.2	159.4	400	8.97	34.118	4.86	26.452	158.7	0.874
494	7.31	34.027	4.06	1.79	42.	0.00	25.2	141.7	500	7.20	34.023	3.99	26.643	140.6	1.031
593	5.63	33.984	2.85	2.38	66.	0.00	33.4	123.9	600	5.54	33.987	2.77	26.831	122.8	1.170
692	4.62	34.036	1.82	2.79	88.	0.00	39.2	108.9	700	4.56	34.043	1.75	26.988	107.9	1.292
791	4.08	34.116	1.07	3.04	105.	0.00	43.4	97.5	800	4.05	34.126	1.02	27.108	96.5	1.401
890	3.76	34.207	0.60	3.17	119.	0.03	44.5	87.5	1000	3.45	34.289	0.33	27.297	78.5	1.591
990	3.48	34.282	0.33	3.24	131.	0.00	46.2	79.3	1200	3.00	34.397	0.24	27.426	66.3	1.751
1192	3.01	34.392	0.24	3.31	150.	0.02	46.5	66.8	1500	2.52	34.518	0.58	27.565	53.2	1.955
1303A	2.83	34.449	0.26		156.			60.9	1750	2.19	34.576	1.12	27.638	46.3	2.100
1551A	2.44	34.530	0.69	3.19	164.		44.6	51.6	2000	1.94	34.609	1.50	27.684	41.9	2.232
1799A	2.14	34.583	1.22	3.01	169.		41.4	45.3	2250	1.76	34.629	1.83	27.715	38.9	2.354
2047A	1.90	34.612	1.56	2.95	177.		41.0	41.3	2500	1.63	34.645	2.23	27.737	36.8	2.470
2293A	1.73	34.632	1.89	2.90	181.		39.8	38.5	2750	1.57	34.663	2.56	27.755	35.1	2.583
2541A	1.61	34.647	2.30	2.85	175.		38.4	36.5	3000	1.52	34.668	2.84	27.764	34.3	2.693
2788A	1.57	34.665	2.60	2.74	176.		38.0	34.9	3250	1.49	34.670	3.01	27.768	34.0	2.803
3035A	1.51	34.668	2.88	2.75	171.		37.4	34.2	3500	1.47	34.681	3.17	27.777	33.0	2.913
3282A	1.49	34.670	3.03	2.65	171.		37.0	34.0	3750	1.47	34.683	3.30	27.779	32.9	3.023
3529A	1.473	34.682	3.19	2.62	166.		37.7	32.9	4000	1.46	34.687	3.40	27.783	32.5	3.134
3776A	1.465	34.682	3.31	2.61	168.		38.3	32.9	4250	1.48	34.686	3.46	27.781	32.7	3.246
4023A	1.46	34.687	3.41	2.60	164.		37.3	32.4	4500	1.48	34.685	3.49	27.780	32.6	3.361
4270A	1.48	34.685	3.46	2.56	167.		36.6	32.7	4750	1.51	34.690	3.57	27.782	32.6	3.477
4517A	1.481	34.684	3.49	2.59	162.		37.1	32.8	5000	1.54	34.692	3.59	27.781	32.7	3.596
4764A	1.514	34.690	3.58	2.55	160.		37.5	32.6	5250	1.57	34.692	3.67	27.779	32.9	3.718
5011A	1.546	34.691	3.59	2.55	155.		36.5	32.7	5500	1.59	34.692	3.68	27.778	33.0	3.843
5256A	1.57	34.691	3.67	2.53	157.		35.7	32.9	5750	1.62	34.692	3.73	27.776	33.2	3.970
5454A	1.586	34.691	3.68	2.52	152.		36.4	33.0							
5602A	1.607	34.692	3.68	2.48	154.		35.4	33.1							
5606A		34.701 U	3.70	2.54	152.		36.5								
5700A	1.617	34.690	3.77	2.47	153.		36.2	33.3							
5750A	1.618	34.692	3.73	2.52	151.		37.0	33.2							

RV THOMAS WASHINGTON

INDOPAC LEG XVI

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LATITUDE		LONGITUDE		MO/DAY/YR		MESSENGER		TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES		
33 10.8N		134 59.7W		7/15/77		1353 GMT			5713M	100	14KT				
Z	T	S	O2	P04	S103	N02	N03	DT	Z	T	S	O2	SIGT	DT	DD
1	22.73	34.313	5.16					438.6	0	22.73	34.313	5.16	23.512	438.6	0.000
11	22.72	34.312	5.17					438.4	10	22.72	34.313	5.17	23.514	438.4	0.044
22	19.33	34.158	5.77					362.0	20	20.02	34.181	5.65	24.151	377.6	0.085
42	16.91	34.088	6.07					310.4	30	18.05	34.122	5.95	24.608	334.0	0.120
73	14.04	34.077	6.67					250.5	50	16.06	34.079	6.27	25.046	292.4	0.183
102	12.52	34.075	6.25					221.5	75	13.90	34.078	6.66	25.514	247.8	0.251
128	11.97	34.094	5.85					210.0	100	12.59	34.076	6.29	25.778	222.8	0.311
153	11.39	34.158	5.61					195.0	125	12.02	34.092	5.89	25.900	211.1	0.366
179	11.01	34.150	5.62					189.0	150	11.46	34.152	5.63	26.052	196.7	0.417
204	10.69	34.129	5.68					185.2	200	10.73	34.133	5.67	26.168	185.7	0.515
255	10.51	34.193	5.28					177.4	250	10.52	34.186	5.33	26.247	178.2	0.608
305	9.98	34.183	5.02					169.5	300	10.04	34.187	5.04	26.330	170.3	0.698
407	8.35	34.084	4.54					151.9	400	8.48	34.093	4.58	26.510	153.2	0.867
506	6.46	33.988	3.59					133.6	500	6.57	33.993	3.66	26.705	134.7	1.018
607	5.10	33.991	2.33					117.5	600	5.18	33.989	2.42	26.876	118.5	1.151
706	4.35	34.059	1.44					104.4	700	4.38	34.055	1.48	27.017	105.2	1.270
806	3.90	34.159	0.84					92.5	800	3.92	34.154	0.87	27.144	93.1	1.376
905	3.60	34.243	0.47					83.3	1000	3.34	34.307	0.31	27.323	76.1	1.559
1004	3.33	34.309	0.31					75.9	1200	3.00	34.416	0.26	27.442	64.9	1.715
1199	3.00	34.415	0.26					64.9							

100						INDOPAC LFG XVI						11 U					
LATITUDE		LONGITUDE		MO/DAY/YR		START TIME		LATITUDE		LONGITUDE		MO/DAY/YR		START TIME			
35 10.2N		156 01.7W		07/14/77		2255 GMT		35 10.8N		154 59.5W		07/15/77		1401 GMT			
Z	T	S	SIGMA T	DT	DD	Z	T	S	SIGMA T	DT	DD	Z	T	S	SIGMA T		
0	22.87	34.32	23.477	441.9	0.000	0	22.65	34.29	23.517	438.1	0.000	0	22.65	34.29	23.517		
10	22.82	34.30	23.476	442.0	0.044	10	20.42	34.24	24.092	383.2	0.041	10	20.42	34.24	24.092		
20	20.34	34.16	24.053	387.0	0.086	20	17.34	34.11	24.771	318.5	0.076	20	17.34	34.11	24.771		
30	18.60	34.25	24.570	337.7	0.122	30	15.72	34.09	25.131	284.2	0.106	30	15.72	34.09	25.131		
40	17.59	34.27	24.833	312.6	0.155	40	14.11	34.06	25.458	253.1	0.133	40	14.11	34.06	25.458		
50	15.90	34.21	25.183	279.3	0.184	50	13.39	34.06	25.607	239.0	0.158	50	13.39	34.06	25.607		
75	13.09	34.08	25.683	231.8	0.249	75	12.37	34.05	25.801	220.5	0.216	75	12.37	34.05	25.801		
100	12.39	34.08	25.820	218.7	0.306	100	11.97	34.08	25.901	211.0	0.270	100	11.97	34.08	25.901		
125	12.36	34.18	25.904	210.6	0.360	125	11.59	34.09	25.980	203.5	0.323	125	11.59	34.09	25.980		
150	11.85	34.18	26.001	201.5	0.412	150	11.36	34.14	26.061	195.8	0.374	150	11.36	34.14	26.061		
175	11.62	34.21	26.067	195.2	0.463	175	11.09	34.14	26.110	191.2	0.423	175	11.09	34.14	26.110		
200	11.31	34.22	26.132	189.1	0.512	200	10.68	34.11	26.160	186.4	0.471	200	10.68	34.11	26.160		
225	10.72	34.14	26.177	184.9	0.560	225	10.41	34.09	26.192	183.4	0.519	225	10.41	34.09	26.192		
250	10.44	34.14	26.226	180.2	0.607	250	10.34	34.15	26.251	177.8	0.565	250	10.34	34.15	26.251		
275	10.54	34.22	26.271	175.9	0.653	275	10.27	34.17	26.279	175.2	0.611	275	10.27	34.17	26.279		
300	10.24	34.21	26.315	171.7	0.698	300	9.98	34.16	26.321	171.2	0.655	300	9.98	34.16	26.321		
350	9.38	34.14	26.405	163.2	0.785	350	9.10	34.11	26.427	161.1	0.742	350	9.10	34.11	26.427		
400	8.68	34.10	26.485	155.6	0.868	400	8.39	34.07	26.507	153.5	0.824	400	8.39	34.07	26.507		
450	7.88	34.06	26.575	147.0	0.948	450	7.51	34.02	26.598	144.9	0.902	450	7.51	34.02	26.598		
500	6.96	34.03	26.683	136.6	1.022	500	6.51	33.98	26.704	134.8	0.976	500	6.51	33.98	26.704		
550	6.22	34.00	26.757	129.6	1.093	550	5.71	33.97	26.798	125.9	1.044	550	5.71	33.97	26.798		
600	5.62	34.00	26.832	122.6	1.159	600	5.17	33.98	26.870	119.0	1.109	600	5.17	33.98	26.870		
650	5.00	34.02	26.922	114.2	1.222	650	4.70	34.01	26.947	111.7	1.170	650	4.70	34.01	26.947		
700	4.64	34.04	26.978	108.9	1.281	700	4.34	34.06	27.026	104.3	1.227	700	4.34	34.06	27.026		
750	4.28	34.10	27.064	100.6	1.337	750	4.06	34.11	27.095	97.7	1.281	750	4.06	34.11	27.095		
800	4.05	34.14	27.120	95.4	1.390	800	3.87	34.16	27.154	92.1	1.332	800	3.87	34.16	27.154		
850	3.88	34.18	27.169	90.7	1.440	850	3.70	34.20	27.203	87.5	1.380	850	3.70	34.20	27.203		
900	3.71	34.23	27.226	85.3	1.487	900	3.58	34.24	27.247	83.3	1.426	900	3.58	34.24	27.247		
950	3.59	34.26	27.262	81.9	1.533	950	3.45	34.28	27.291	79.1	1.470	950	3.45	34.28	27.291		
1000	3.44	34.30	27.308	77.5	1.577	1000	3.32	34.31	27.328	75.7	1.512	1000	3.32	34.31	27.328		
1100	3.17	34.36	27.381	70.6	1.658	1100	3.14	34.37	27.392	69.6	1.593	1100	3.14	34.37	27.392		
1200	2.98	34.41	27.439	65.1	1.734	1200	2.98	34.42	27.447	64.4	1.667	1200	2.98	34.42	27.447		
1300	2.84	34.45	27.483	60.9	1.805												
1400	2.65	34.48	27.524	57.1	1.872												
1500	2.55	34.52	27.564	53.2	1.936												
1600	2.393	34.543	27.596	50.2	1.996												
1700	2.257	34.562	27.622	47.7	2.053												
1800	2.155	34.582	27.647	45.4	2.108												
1900	2.057	34.596	27.666	43.6	2.161												
2000	1.971	34.604	27.679	42.4	2.213												
2100	1.889	34.615	27.694	40.9	2.263												
2200	1.814	34.624	27.707	39.7	2.312												
2300	1.757	34.633	27.719	38.6	2.360												
2400	1.701	34.640	27.728	37.7	2.407												
2500	1.657	34.644	27.735	37.1	2.453												
2600	1.630	34.651	27.743	36.4	2.499												
2700	1.602	34.656	27.749	35.8	2.544												
2800	1.577	34.659	27.753	35.4	2.589												
2900	1.553	34.665	27.759	34.8	2.634												
3000	1.535	34.666	27.762	34.6	2.678												
3100	1.517	34.669	27.765	34.2	2.722												
3200	1.503	34.672	27.769	33.9	2.766												
3300	1.487	34.673	27.771	33.7	2.810												
3400	1.481	34.676	27.773	33.4	2.854												
3500	1.476	34.677	27.774	33.3	2.898												
3600	1.469	34.679	27.777	33.1	2.942												
3700	1.464	34.683	27.780	32.8	2.986												
3800	1.464	34.682	27.779	32.9	3.031												
3900	1.466	34.683	27.780	32.8	3.075												
4000	1.466	34.685	27.782	32.6	3.120												
4100	1.474	34.686	27.782	32.6	3.164												
4200	1.476	34.686	27.782	32.6	3.210												
4300	1.484	34.686	27.781	32.7	3.255												
4400	1.489	34.688	27.782	32.6	3.301												
4500	1.493	34.687	27.781	32.7	3.347												
4600	1.502	34.687	27.781	32.7	3.393												
4700	1.510	34.689	27.782	32.6	3.440												
4800	1.517	34.690	27.782	32.6	3.487												
4900	1.528	34.690	27.781	32.7	3.535												
5000	1.537	34.690	27.781	32.8	3.582												
5100	1.547	34.690	27.780	32.8	3.631												
5200	1.555	34.691	27.780	32.8	3.679												
5300	1.567	34.690	27.778	33.0	3.729												
5400	1.581	34.691	27.778	33.0	3.778												
5500	1.591	34.692	27.778	33.0	3.828												
5600	1.603	34.693	27.778	33.0	3.879												
5700	1.615	34.692	27.776	33.1	3.930												

RV THOMAS WASHINGTON

INDOPAC LEG XVI

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LATITUDE		LONGITUDE		MO/DAY/YR		MESSENGER		TIME		BOTTOM		WIND		SPEED		WEATHER		DOMINANT WAVES	
35 09.9N		153 58.0W		7/17/77		0304 0651		GMT		5646M		100		17KT		1		090 7 7	
Z	T	S	O2	P04	SI03	N02	N03	DT	Z	T	S	O2	SIGT	DT	DD				
1	23.00	34.470	5.10	0.09	5.8	0.02	0.0	434.6	0	23.00	34.470	5.10	23.553	434.6	0.000				
16	22.98	34.465	5.17	0.09	5.8	0.01	0.0	434.4	10	22.99	34.468	5.14	23.554	434.5	0.043				
21	22.91	34.454	5.13	0.09	5.8	0.01	0.0	433.3	20	22.92	34.457	5.13	23.565	433.5	0.087				
41	16.84	34.194	6.09	0.11	6.4	0.00	0.0	301.1	30	20.54	34.304	5.50	24.109	381.7	0.128				
70	14.15	34.150	6.22	0.16	6.8	0.01	0.0	247.3	50	15.57	34.192	6.13	25.241	273.7	0.194				
99	12.28	33.898	5.83	0.42	8.0	0.12	3.8	230.1	75	13.72	34.094	6.16	25.564	243.1	0.259				
124	12.34	34.117	5.75	0.49	9.2	0.04	5.4	215.1	100	12.28	33.909	5.83	25.708	229.4	0.318				
148	11.86	34.115	5.53	0.60	11.	0.02	7.5	206.5	125	12.33	34.120	5.74	25.863	214.6	0.374				
173	11.25	34.093	5.45	0.72	12.	0.01	9.4	197.4	150	11.80	34.113	5.52	25.957	205.8	0.428				
198	11.12	34.177	5.32	0.82	14.	0.01	11.2	188.9	200	11.10	34.181	5.31	26.140	188.4	0.528				
248	10.39	34.174	5.15	0.99	18.	0.01	13.8	176.8	250	10.36	34.174	5.15	26.265	176.4	0.622				
296	9.67	34.136	5.07	1.14	21.	0.00	15.8	168.0	300	9.62	34.135	5.06	26.361	167.4	0.711				
398	8.24	34.072	4.51	1.49	33.	0.00	21.2	151.2	400	8.20	34.070	4.49	26.534	150.9	0.877				
498	6.43	33.973	3.57	2.06	51.	0.00	28.6	134.4	500	6.40	33.974	3.54	26.712	134.0	1.026				
598	5.12	33.983	2.29	2.61	75.	0.00	36.0	118.3	600	5.10	33.985	2.27	26.882	118.0	1.159				
697	4.34	34.059	1.44	2.94	96.	0.00	40.4	104.3	700	4.32	34.063	1.42	27.029	103.9	1.276				
796	3.92	34.160	0.76	3.13	113.	0.00	43.0	92.6	800	3.90	34.164	0.75	27.154	92.2	1.381				
896	3.56	34.240	0.50	3.22	128.	0.00	44.6	83.1	1000	3.28	34.315	0.29	27.335	75.0	1.562				
996	3.28	34.313	0.29	3.29	140.	0.00	45.6	75.1	1200	2.98	34.435	0.30	27.458	63.3	1.715				
1159A	3.09	34.394	0.24	3.32	149.		45.2	67.3	1500	2.65	34.525	0.73	27.559	53.7	1.916				
1193	2.99	34.430	0.29	3.27	149.	0.00	45.7	63.7	1750	2.25	34.573	1.14	27.631	47.0	2.064				
1407A	2.80	34.501	0.59	3.26	158.		44.6	56.7	2000	1.99	34.606	1.51	27.678	42.4	2.198				
1654A	2.38	34.556	0.98	3.18	168.		44.4	49.1	2250	1.80	34.626	1.83	27.708	39.5	2.322				
1900A	2.08	34.592	1.38	3.09	177.		43.2	44.1	2500	1.68	34.639	2.17	27.729	37.6	2.440				
2148A	1.87	34.620	1.69	3.01	182.		42.2	40.4	2750	1.60	34.652	2.48	27.745	36.1	2.556				
2397A	1.72	34.633	2.03	2.94	182.		41.4	38.4	3000	1.54	34.661	2.76	27.757	35.0	2.668				
2644A	1.63	34.647	2.35	2.85	180.		40.4	36.7	3250	1.49	34.668	3.02	27.766	34.1	2.780				
2889A	1.57	34.657	2.64	2.79	177.		39.4	35.5	3500	1.47	34.674	3.20	27.772	33.6	2.891				
3138A	1.51	34.665	2.91	2.74	173.		38.6	34.5	3750	1.47	34.679	3.30	27.776	33.2	3.002				
3386A	1.481	34.671	3.14	2.69	171.		38.2	33.8	4000	1.47	34.681	3.40	27.778	33.0	3.114				
3634A	1.468	34.676	3.25	2.66	168.		37.4	33.3	4250	1.48	34.683	3.45	27.779	32.9	3.227				
3880A	1.47	34.680	3.36	2.62	167.		37.4	33.1	4500	1.49	34.685	3.52	27.779	32.9	3.342				
4126A	1.47	34.681	3.43	2.61	167.		37.1	33.0	4750	1.51	34.686	3.58	27.779	32.9	3.459				
4326A	1.481	34.683	3.47	2.60	165.		37.0	32.9	5000	1.54	34.688	3.63	27.778	33.0	3.579				
4623A	1.504	34.685	3.55	2.59	164.		37.0	32.9	5250	1.57	34.690	3.69	27.778	33.0	3.701				
4869A	1.525	34.686	3.60	2.56	160.		36.9	33.0	5500	1.59	34.690	3.66	27.775	33.2	3.826				
5117A	1.56	34.689	3.65	2.57	157.		36.7	33.0											
5314A	1.57	34.689	3.70	2.52	157.		36.4	33.1											
5462A	1.588	34.689	3.66	2.54	157.		36.3	33.2											
5562A	1.607																		
5612A	1.616	34.689	3.66	2.54	155.		36.4	33.4											

RV THOMAS WASHINGTON

INDOPAC LEG XVI

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LATITUDE		LONGITUDE		MO/DAY/YR		MESSENGER		TIME		BOTTOM		WIND		SPEED		WEATHER		DOMINANT WAVES	
35 10.3N		153 00.6W		7/17/77		1317		GMT		5881M		340		13KT		1			
Z	T	S	O2	P04	SI03	N02	N03	DT	Z	T	S	O2	SIGT	DT	DD				
1	22.56	34.173	5.17					444.1	0	22.56	34.173	5.17	23.454	444.1	0.000				
11	22.56	34.172	5.18					444.2	10	22.56	34.173	5.18	23.453	444.1	0.044				
21	20.22	34.128	5.61					386.3	20	20.50	34.131	5.56	23.988	393.2	0.086				
41	16.29	34.130	6.08					292.2	30	18.28	34.132	5.88	24.559	338.7	0.123				
70	13.84	33.969	6.11					254.5	50	15.27	34.108	6.09	25.245	273.4	0.184				
99	12.45	33.910	5.72					232.3	75	13.53	33.952	6.05	25.494	249.8	0.250				
124	11.98	33.950	5.53					220.8	100	12.43	33.912	5.71	25.683	231.8	0.311				
149	11.32	33.991	5.36					206.1	125	11.95	33.952	5.52	25.804	220.2	0.368				
174	11.25	34.128	5.47					194.8	150	11.32	33.998	5.37	25.958	205.6	0.422				
199	11.17	34.222	5.17					186.5	200	11.16	34.223	5.17	26.163	186.2	0.522				
249	10.23	34.181	5.15					173.7	250	10.21	34.181	5.15	26.296	173.5	0.615				
298	9.49	34.151	4.92					164.1	300	9.46	34.151	4.91	26.399	163.8	0.702				
397	8.08	34.069	4.45					149.2	400	8.02	34.067	4.42	26.558	148.6	0.864				
496	6.28	33.985	3.38					131.6	500	6.22	33.985	3.33	26.745	131.0	1.011				
597	5.03	33.997	2.16					116.2	600	5.00	34.000	2.13	26.905	115.8	1.141				
696	4.29	34.078	1.33					102.4	700	4.27	34.083	1.30	27.051	101.9	1.256				
796	3.89	34.168	0.76					91.7	800	3.88	34.173	0.74	27.163	91.3	1.359				
893	3.67	34.253	0.41					83.2	1000	3.39	34.333	0.26	27.339	74.7	1.540				
993	3.40	34.328	0.26					75.1	1200	3.02	34.438	0.31	27.457	63.4	1.693				
1194	3.026	34.435	0.31					63.7											

120						INDOPAC LEG XVI						13					
LATITUDE		LONGITUDE		MO/DAY/YR		START TIME		LATITUDE		LONGITUDE		MO/DAY/YR		START TIME			
35 09.8N		153 59.2W		07/17/77		0138 GMT		35 10.0N		153 00.2W		07/17/77		1234 GMT			
Z	T	S	SIGMA T	DT	DD	Z	T	S	SIGMA T	DT	DD	Z	T	S	SIGMA T		
0	23.13	34.47	23.516	438.2	0.000	0	22.56	34.16	23.444	445.0	0.000	0	22.56	34.16	23.444		
10	23.10	34.46	23.517	438.1	0.044	10	22.56	34.16	23.444	445.0	0.045	10	22.56	34.16	23.444		
20	22.94	34.46	23.563	433.7	0.087	20	22.14	34.14	23.547	435.2	0.089	20	22.14	34.14	23.547		
30	22.60	34.35	23.577	432.4	0.131	30	19.29	34.27	24.410	352.9	0.128	30	19.29	34.27	24.410		
40	18.55	34.20	24.544	340.2	0.170	40	16.98	34.16	24.895	306.7	0.161	40	16.98	34.16	24.895		
50	17.04	34.22	24.926	303.7	0.202	50	15.76	34.11	25.138	283.6	0.191	50	15.76	34.11	25.138		
75	14.46	34.09	25.407	258.0	0.273	75	13.71	33.92	25.434	255.5	0.259	75	13.71	33.92	25.434		
100	13.12	33.97	25.592	240.4	0.336	100	12.61	33.90	25.639	236.0	0.321	100	12.61	33.90	25.639		
125	12.17	33.97	25.778	222.6	0.394	125	12.01	33.92	25.770	223.6	0.379	125	12.01	33.92	25.770		
150	11.71	34.07	25.942	207.1	0.449	150	11.35	33.97	25.931	208.2	0.434	150	11.35	33.97	25.931		
175	11.40	34.11	26.031	198.7	0.500	175	11.29	34.11	26.051	196.8	0.485	175	11.29	34.11	26.051		
200	11.12	34.18	26.136	188.7	0.550	200	11.21	34.22	26.151	187.3	0.534	200	11.21	34.22	26.151		
225	10.77	34.19	26.207	182.0	0.597	225	10.79	34.20	26.211	181.6	0.582	225	10.79	34.20	26.211		
250	10.34	34.16	26.259	177.1	0.644	250	10.28	34.16	26.269	176.1	0.628	250	10.28	34.16	26.269		
275	10.09	34.17	26.310	172.2	0.689	275	9.85	34.15	26.335	169.9	0.672	275	9.85	34.15	26.335		
300	9.64	34.15	26.370	166.5	0.733	300	9.55	34.15	26.385	165.1	0.716	300	9.55	34.15	26.385		
350	8.88	34.10	26.454	158.5	0.817	350	8.78	34.10	26.470	157.0	0.799	350	8.78	34.10	26.470		
400	8.16	34.07	26.542	150.2	0.898	400	8.01	34.06	26.556	148.8	0.879	400	8.01	34.06	26.556		
450	7.09	34.01	26.649	140.0	0.974	450	7.05	34.00	26.647	140.2	0.955	450	7.05	34.00	26.647		
500	6.28	33.98	26.734	132.0	1.045	500	6.25	33.99	26.746	130.9	1.026	500	6.25	33.99	26.746		
550	5.54	33.98	26.826	123.2	1.112	550	5.54	33.98	26.826	123.2	1.093	550	5.54	33.98	26.826		
600	5.01	34.00	26.905	115.8	1.175	600	4.99	34.01	26.915	114.8	1.155	600	4.99	34.01	26.915		
650	4.61	34.04	26.981	108.5	1.234	650	4.54	34.04	26.989	107.8	1.214	650	4.54	34.04	26.989		
700	4.29	34.08	27.047	102.2	1.290	700	4.27	34.09	27.057	101.3	1.270	700	4.27	34.09	27.057		
750	4.08	34.12	27.101	97.2	1.343	750	4.07	34.13	27.110	96.3	1.322	750	4.07	34.13	27.110		
800	3.92	34.17	27.157	91.8	1.394	800	3.92	34.17	27.157	91.8	1.373	800	3.92	34.17	27.157		
850	3.73	34.20	27.200	87.7	1.442	850	3.77	34.21	27.204	87.4	1.421	850	3.77	34.21	27.204		
900	3.59	34.24	27.246	83.4	1.489	900	3.72	34.26	27.249	83.1	1.467	900	3.72	34.26	27.249		
950	3.45	34.28	27.291	79.1	1.533	950	3.50	34.29	27.294	78.8	1.511	950	3.50	34.29	27.294		
1000	3.34	34.31	27.326	75.9	1.575	1000	3.37	34.32	27.331	75.4	1.554	1000	3.37	34.32	27.331		
1100	3.15	34.38	27.399	68.9	1.655	1100	3.18	34.38	27.396	69.2	1.633	1100	3.18	34.38	27.396		
1200	3.08	34.44	27.453	63.8	1.729	1200	3.02	34.42	27.443	64.7	1.708	1200	3.02	34.42	27.443		
1300	2.94	34.47	27.490	60.3	1.800												
1400	2.80	34.50	27.526	56.8	1.867												
1500	2.64	34.52	27.556	54.0	1.931												
1600	2.470	34.546	27.592	50.6	1.992												
1700	2.322	34.565	27.619	48.0	2.050												
1800	2.190	34.581	27.643	45.8	2.106												
1900	2.074	34.595	27.664	43.8	2.159												
2000	1.984	34.605	27.679	42.4	2.211												
2100	1.914	34.615	27.692	41.1	2.262												
2200	1.843	34.624	27.705	39.9	2.311												
2300	1.787	34.631	27.715	39.0	2.359												
2400	1.733	34.637	27.724	38.1	2.407												
2500	1.685	34.641	27.730	37.5	2.454												
2600	1.649	34.647	27.738	36.8	2.500												
2700	1.612	34.652	27.745	36.2	2.546												
2800	1.584	34.655	27.749	35.7	2.591												
2900	1.559	34.660	27.755	35.2	2.636												
3000	1.542	34.663	27.758	34.6	2.681												
3100	1.519	34.665	27.762	34.5	2.725												
3200	1.505	34.669	27.766	34.1	2.769												
3300	1.491	34.671	27.769	33.9	2.814												
3400	1.481	34.672	27.770	33.7	2.858												
3500	1.476	34.675	27.773	33.5	2.902												
3600	1.470	34.676	27.774	33.4	2.946												
3700	1.467	34.677	27.775	33.3	2.991												
3800	1.465	34.679	27.777	33.1	3.035												
3900	1.467	34.680	27.778	33.0	3.080												
4000	1.471	34.681	27.778	33.0	3.125												
4100	1.473	34.681	27.778	33.0	3.170												
4200	1.478	34.682	27.778	32.9	3.215												
4300	1.484	34.683	27.779	32.9	3.261												
4400	1.490	34.683	27.778	33.0	3.307												
4500	1.497	34.683	27.778	33.0	3.354												
4600	1.504	34.685	27.779	32.9	3.400												
4700	1.509	34.685	27.779	32.9	3.447												
4800	1.518	34.687	27.780	32.9	3.495												
4900	1.526	34.687	27.779	32.9	3.542												
5000	1.536	34.686	27.777	33.0	3.590												
5100	1.545	34.687	27.778	33.0	3.639												
5200	1.557	34.687	27.777	33.1	3.688												
5300	1.566	34.687	27.776	33.2	3.737												
5400	1.579	34.688	27.776	33.2	3.787												
5500	1.593	34.689	27.776	33.2	3.837												
5600	1.606	34.688	27.774	33.4	3.888												

RV THOMAS WASHINGTON

INDOPAC LEG XVI

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LATITUDE		LONGITUDE		MO/DAY/YR		MESSENGER		TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES		
35 10.1N		151 57.0W		7/17/77		2116 0655		GMT	5785M	060	13KT	1	090 4 7		
Z	T	S	02	P04	S103	N02	N03	DT	Z	T	S	02	S1GT	DT	DD
1	22.58	34.177	5.13	0.10	5.6	0.00	0.0	444.3	0	22.58	34.177	5.13	23.452	444.3	0.000
16	22.51	34.169	5.20	0.09	5.7	0.00	0.0	443.0	10	22.54	34.173	5.17	23.460	443.5	0.044
21	21.60	34.343	5.43	0.07	5.2	0.00	0.0	406.2	20	21.80	34.308	5.38	23.768	414.1	0.087
41	17.37	34.254	5.99	0.09	5.6	0.00	0.0	308.7	30	19.65	34.371	5.73	24.394	354.4	0.126
72	14.24	34.104	6.31	0.15	6.5	0.00	0.0	252.5	50	16.16	34.213	6.08	25.125	284.8	0.190
101	12.87	34.052	5.98	0.28	7.7	0.09	1.1	229.7	75	14.04	34.096	6.29	25.499	249.2	0.257
126	12.46	34.094		0.47	8.8	0.09	5.4	219.7	100	12.90	34.054	6.00	25.700	230.1	0.318
151	11.99	34.143	5.39	0.61	10.4	0.01	7.8	206.8	125	12.47	34.093	5.68	25.814	219.3	0.375
176	11.66	34.196	5.19	0.73	12.	0.01	10.2	197.0	150	12.01	34.142	5.40	25.941	207.3	0.429
200	11.40	34.215	5.17	0.81	14.	0.00	11.4	191.0	200	11.40	34.215	5.17	26.112	191.0	0.530
250	10.69	34.210	5.18	0.94	17.	0.01	13.4	179.2	250	10.69	34.210	5.18	26.236	179.2	0.626
299	9.97	34.174	5.12	1.08	20.	0.00	15.2	170.0	300	9.95	34.174	5.12	26.335	169.8	0.716
399	8.22	34.078	4.52	1.50	32.	0.02	21.2	150.5	400	8.20	34.078	4.51	26.541	150.3	0.882
497	6.46	33.992	3.58	2.04	50.	0.00	28.9	133.3	500	6.41	33.992	3.54	26.726	132.7	1.031
597	5.00	33.998	2.24	2.65	77.	0.00	37.6	115.8	600	4.97	34.000	2.21	26.908	115.4	1.162
696	4.31	34.064	1.34	2.97	97.	0.00	41.8	103.7	700	4.29	34.068	1.31	27.037	103.2	1.277
796	3.90	34.160	0.80	3.13	113.	0.00	44.0	92.4	800	3.89	34.165	0.78	27.155	92.0	1.382
895	3.67	34.247	0.47	3.25	126.	0.00	45.4	83.6	1000	3.33	34.323	0.32	27.336	74.8	1.562
995	3.34	34.319	0.32	3.27	137.	0.00	46.1	75.2	1200	3.00	34.436	0.31	27.457	63.4	1.716
1192	3.01	34.432	0.30	3.28	149.	0.00	46.3	63.7	1500	2.58	34.530	0.76	27.569	52.7	1.915
1295A	2.85	34.470	0.44	3.27	154.		46.4	59.5	1750	2.22	34.586	1.20	27.644	45.7	2.060
1544A	2.52	34.540	0.84	3.20	162.		45.4	51.5	2000	1.97	34.608	1.56	27.682	42.1	2.191
1791A	2.16	34.592	1.27	3.11	173.		44.2	44.7	2250	1.79	34.629	1.89	27.712	39.2	2.314
2038A	1.94	34.609	1.61	3.01	177.		43.1	41.8	2500	1.68	34.642	2.20	27.731	37.4	2.432
2286A	1.77	34.632		2.96	181.		42.2	38.8	2750	1.60	34.653	2.50	27.746	36.0	2.547
2535A	1.67	34.643	2.24	2.87	177.		41.4	37.2	3000	1.54	34.662	2.76	27.757	34.9	2.659
2783A	1.59	34.654	2.54	2.80	174.		40.6	35.8	3250	1.50	34.670	3.00	27.766	34.1	2.771
3031A	1.53	34.662	2.79	2.73	172.		39.9	34.8	3500	1.48	34.677	3.17	27.774	33.4	2.881
3278A	1.50	34.670	3.02	2.68	169.		39.2	34.0	3750	1.48	34.680	3.29	27.777	33.1	2.992
3525A	1.48	34.677	3.18	2.61	168.		39.0	33.3	4000	1.48	34.683	3.37	27.779	32.9	3.104
3774A		34.682		2.63	165.		38.3								
4022A	1.476	34.683	3.37	2.60	164.		38.0	32.9							

RV THOMAS WASHINGTON

INDOPAC LEG XVI

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LATITUDE		LONGITUDE		MO/DAY/YR		MESSENGER		TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES		
35 10.1N		150 59.0W		7/18/77		1332 GMT			5677M	090	7KT	1			
Z	T	S	02	P04	S103	N02	N03	DT	Z	T	S	02	S1GT	DT	DD
1	22.27	34.310	5.16					426.4	0	22.27	34.310	5.16	23.640	426.4	0.000
11	22.27	34.306	5.18					426.7	10	22.27	34.307	5.18	23.637	426.6	0.043
21	22.28	34.311	5.18					426.6	20	22.28	34.311	5.18	23.638	426.6	0.085
41	19.65	34.576	5.69					339.6	30	21.32	34.435	5.38	23.997	392.3	0.126
71	15.49	34.119	6.05					277.2	50	18.27	34.460	5.85	24.812	314.6	0.197
100	14.14	34.083	6.00					252.1	75	15.23	34.111	6.04	25.255	272.4	0.271
125	12.84	33.929	5.75					238.2	100	14.14	34.083	6.00	25.470	252.1	0.337
150	11.86	33.885	5.67					223.4	125	12.84	33.929	5.75	25.616	238.2	0.399
175	11.17	33.934	5.37					207.7	150	11.86	33.885	5.67	25.771	223.4	0.458
200	10.85	34.011	5.25					196.6	200	10.85	34.011	5.25	26.053	196.6	0.565
250	10.15	34.119	5.10					177.0	250	10.15	34.119	5.10	26.260	177.0	0.661
299	9.47	34.116	4.97					166.4	300	9.46	34.117	4.97	26.373	166.2	0.749
399	7.99	34.052	4.45					149.2	400	7.97	34.052	4.44	26.555	149.0	0.913
498	6.30	33.972	3.39					132.8	500	6.27	33.973	3.37	26.728	132.5	1.061
598	5.13	33.989	2.28					117.9	600	5.11	33.991	2.26	26.885	117.6	1.193
697	4.31	34.061	1.40					103.9	700	4.29	34.065	1.38	27.035	103.5	1.310
797	3.89	34.163	0.78					92.1	800	3.88	34.167	0.77	27.158	91.8	1.414
896	3.63	34.254	0.41					82.7	1000	3.35	34.330	0.28	27.340	74.8	1.595
995	3.36	34.323	0.28					75.1	1200	2.96	34.426	0.27	27.453	63.8	1.748
1194	2.971	34.423	0.27					64.1							

LATITUDE		LONGITUDE		MO/DAY/YR		START TIME		LATITUDE		LONGITUDE		MO/DAY/YR		START TIME	
35 09.6N		151 57.2W		07/17/77		1909 GMT		35 09.8N		150 58.7W		07/18/77		1237 GMT	
Z	T	S	SIGMA T	DT	DD	Z	T	S	SIGMA T	DT	DD	Z	T	S	SIGMA T
0	22.44	34.16	23.478	441.8	0.000	0	22.30	34.31	23.631	427.2	0.000	0	22.30	34.31	23.631
10	22.44	34.16	23.478	441.8	0.044	10	22.28	34.31	23.637	426.6	0.043	10	22.28	34.31	23.637
20	22.42	34.16	23.484	441.2	0.088	20	22.28	34.32	23.644	425.9	0.085	20	22.28	34.32	23.644
30	19.70	34.13	24.198	373.1	0.129	30	20.94	34.40	24.074	384.9	0.126	30	20.94	34.40	24.074
40	18.26	34.36	24.738	321.7	0.164	40	19.63	34.52	24.513	343.1	0.163	40	19.63	34.52	24.513
50	15.86	34.11	25.115	285.8	0.195	50	17.57	34.20	24.784	317.2	0.196	50	17.57	34.20	24.784
75	14.09	34.10	25.493	249.6	0.262	75	15.18	34.06	25.228	275.0	0.270	75	15.18	34.06	25.228
100	12.82	34.05	25.713	228.9	0.322	100	14.16	34.07	25.455	253.4	0.337	100	14.16	34.07	25.455
125	12.32	34.09	25.842	216.7	0.379	125	12.96	33.92	25.585	241.1	0.399	125	12.96	33.92	25.585
150	11.97	34.14	25.947	206.6	0.433	150	11.94	33.88	25.752	225.2	0.459	150	11.94	33.88	25.752
175	11.67	34.19	26.043	197.6	0.484	175	11.27	33.92	25.907	210.5	0.514	175	11.27	33.92	25.907
200	11.39	34.22	26.118	190.4	0.534	200	10.84	34.02	26.062	195.8	0.566	200	10.84	34.02	26.062
225	11.00	34.21	26.181	184.4	0.582	225	10.40	34.07	26.178	184.7	0.615	225	10.40	34.07	26.178
250	10.68	34.21	26.238	179.0	0.629	250	10.14	34.12	26.262	176.8	0.661	250	10.14	34.12	26.262
275	10.35	34.20	26.288	174.3	0.674	275	9.78	34.12	26.323	171.0	0.706	275	9.78	34.12	26.323
300	9.98	34.18	26.336	169.7	0.719	300	9.38	34.13	26.397	163.9	0.749	300	9.38	34.13	26.397
350	9.26	34.13	26.417	162.1	0.805	350	8.61	34.06	26.465	157.5	0.833	350	8.61	34.06	26.465
400	8.48	34.09	26.509	153.4	0.887	400	7.73	34.05	26.590	145.7	0.912	400	7.73	34.05	26.590
450	7.61	34.04	26.599	144.8	0.965	450	6.91	34.00	26.666	138.4	0.986	450	6.91	34.00	26.666
500	6.57	33.99	26.704	134.8	1.039	500	6.05	33.98	26.763	129.2	1.056	500	6.05	33.98	26.763
550	5.68	33.98	26.809	124.8	1.107	550	5.43	33.98	26.840	122.0	1.122	550	5.43	33.98	26.840
600	5.14	34.00	26.890	117.2	1.171	600	4.93	34.02	26.929	113.4	1.184	600	4.93	34.02	26.929
650	4.66	34.02	26.960	110.6	1.231	650	4.53	34.03	26.982	108.5	1.243	650	4.53	34.03	26.982
700	4.34	34.06	27.026	104.3	1.288	700	4.23	34.08	27.054	101.6	1.299	700	4.23	34.08	27.054
750	4.06	34.12	27.103	97.0	1.342	750	3.97	34.13	27.120	95.3	1.351	750	3.97	34.13	27.120
800	3.88	34.17	27.161	91.4	1.392	800	3.85	34.17	27.164	91.2	1.401	800	3.85	34.17	27.164
850	3.76	34.22	27.213	86.5	1.440	850	3.72	34.22	27.217	86.2	1.449	850	3.72	34.22	27.217
900	3.62	34.26	27.259	82.2	1.486	900	3.61	34.25	27.252	82.9	1.494	900	3.61	34.25	27.252
950	3.50	34.30	27.302	78.1	1.530	950	3.47	34.28	27.289	79.3	1.538	950	3.47	34.28	27.289
1000	3.32	34.33	27.343	74.2	1.571	1000	3.34	34.31	27.326	75.9	1.581	1000	3.34	34.31	27.326
1100	3.10	34.39	27.412	67.7	1.650	1100	3.12	34.36	27.386	70.1	1.661	1100	3.12	34.36	27.386
1200	2.96	34.44	27.464	62.7	1.723	1200	2.96	34.40	27.432	65.7	1.737	1200	2.96	34.40	27.432
1300	2.84	34.48	27.507	58.7	1.791										
1400	2.69	34.51	27.544	55.1	1.857										
1500	2.56	34.53	27.571	52.6	1.919										
1600	2.427	34.555	27.603	49.6	1.979										
1700	2.294	34.570	27.626	47.4	2.036										
1800	2.158	34.588	27.651	45.0	2.091										
1900	2.051	34.605	27.673	42.9	2.143										
2000	1.965	34.612	27.686	41.7	2.194										
2100	1.896	34.620	27.698	40.6	2.244										
2200	1.833	34.628	27.709	39.6	2.293										
2300	1.780	34.635	27.718	38.6	2.341										
2400	1.730	34.642	27.728	37.8	2.388										
2500	1.697	34.646	27.733	37.2	2.434										
2600	1.660	34.652	27.741	36.5	2.480										
2700	1.623	34.658	27.749	35.8	2.526										
2800	1.589	34.660	27.753	35.4	2.571										
2900	1.568	34.661	27.755	35.2	2.616										
3000	1.541	34.666	27.761	34.6	2.660										
3100	1.524	34.669	27.765	34.2	2.705										
3200	1.505	34.672	27.768	33.9	2.749										
3300	1.495	34.673	27.770	33.7	2.793										
3400	1.485	34.677	27.774	33.4	2.837										
3500	1.484	34.676	27.773	33.5	2.881										
3600	1.477	34.678	27.775	33.2	2.925										
3700	1.473	34.679	27.776	33.2	2.969										
3800	1.473	34.679	27.776	33.2	3.014										
3900	1.476	34.680	27.777	33.1	3.059										
4000	1.473	34.678	27.776	33.2	3.104										
4100	1.476	34.680	27.777	33.1	3.149										
4200	1.481	34.681	27.777	33.0	3.195										
4300	1.485	34.682	27.778	33.0	3.241										
4400	1.494	34.683	27.778	33.0	3.287										
4500	1.501	34.683	27.778	33.0	3.333										
4600	1.507	34.683	27.777	33.1	3.380										
4700	1.514	34.685	27.778	33.0	3.427										
4800	1.523	34.685	27.778	33.0	3.475										
4900	1.529	34.685	27.777	33.1	3.522										
5000	1.540	34.688	27.779	32.9	3.571										
5100	1.552	34.687	27.777	33.1	3.619										
5200	1.558	34.687	27.777	33.1	3.668										
5300	1.569	34.688	27.777	33.1	3.718										
5400	1.582	34.689	27.776	33.1	3.767										
5500	1.595	34.689	27.775	33.2	3.818										
5600	1.610	34.689	27.774	33.3	3.868										
5700	1.622	34.690	27.774	33.3	3.920										

RV THOMAS WASHINGTON

INDOPAC LEG XVI

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	LATITUDE		LONGITUDE		MO/DAY/YR		MESSENGER		TIME		BOTTOM		WIND		SPEED		WEATHER		DOMINANT WAVES			
	35 10.4N		149 59.5W		7/18/77		2036 0040		GMT		5709M		310		8KT		1		120 3 6			
Z	T	S	O2	P04	S103	N02	N03	DT	Z	T	S	O2	SIGT	DT	DD							
1	22.71	34.519	5.14	0.04	4.4	0.00	0.0	423.1	0	22.71	34.519	5.14	23.673	423.1	0.000							
16	22.23	34.507	5.25	0.03	4.5	0.00	0.0	411.1	10	22.42	34.512	5.21	23.749	415.9	0.042							
21	18.11	34.021	5.85	0.07	4.9	0.00	0.0	342.8	20	18.95	34.105	5.73	24.370	356.8	0.081							
41	16.66	34.024	5.97	0.08	5.0	0.00	0.0	309.5	30	17.46	34.021	5.90	24.674	327.8	0.115							
71	15.24	33.969	6.02	0.12	5.2	0.00	0.0	282.9	50	16.15	34.010	5.98	24.972	299.4	0.178							
100	14.51	33.957	5.96	0.15	5.4	0.00	0.0	268.7	75	15.13	33.969	6.02	25.169	280.6	0.251							
125	13.75	33.922	5.86	0.20	6.1	0.14	0.0	256.1	100	14.51	33.957	5.96	25.294	268.7	0.320							
150	13.05	33.894	5.86	0.28	6.8	0.01	1.4	244.7	125	13.75	33.922	5.86	25.427	256.1	0.387							
175	12.45	33.892	5.79	0.39	7.8	0.01	3.2	233.6	150	13.05	33.894	5.86	25.547	244.7	0.450							
200	11.82	33.898	5.86	0.48	8.6	0.00	4.8	221.8	200	11.82	33.898	5.86	25.788	221.8	0.569							
250	10.93	34.054	5.23	0.82	13.1	0.00	10.4	194.8	250	10.93	34.054	5.23	26.072	194.8	0.676							
299	10.26	34.140	5.09	1.01	18.0	0.00	13.8	177.2	300	10.25	34.141	5.09	26.260	177.0	0.771							
400	8.69	34.081	4.76	1.36	27.0	0.00	18.6	157.1	400	8.69	34.081	4.76	26.469	157.1	0.945							
498	7.09	34.005	3.99	1.83	43.0	0.00	25.7	140.4	500	7.05	34.004	3.96	26.649	140.1	1.101							
599	5.49	33.969	2.64	2.45	68.0	0.00	34.0	123.5	600	5.48	33.971	2.63	26.826	123.3	1.240							
697	4.55	34.035	1.62	2.87	91.0	0.00	39.7	108.3	700	4.53	34.039	1.59	26.988	107.9	1.363							
796	4.10	34.135	0.91	3.08	109.0	0.00	42.6	96.2	800	4.09	34.140	0.89	27.116	95.8	1.472							
893	3.82	34.231	0.49	3.24	122.0	0.00	44.5	86.3	1000	3.59	34.331	0.27	27.317	76.7	1.659							
992	3.60	34.323	0.26	3.27	133.0	0.00	45.6	77.3	1200	3.18	34.435	0.37	27.440	65.1	1.817							
1192	3.22	34.434	0.40	3.30	145.0	0.00	45.6	65.4	1500	2.67	34.531	0.85	27.562	53.4	2.021							
1212A	3.12	34.434	0.33	3.30	148.0		45.3	64.6	1750	2.29	34.576	1.21	27.630	47.0	2.169							
1464A	2.73	34.322	0.79	3.25	156.0		45.0	54.6	2000	2.00	34.604	1.57	27.675	42.7	2.303							
1711A	2.34	34.569	1.15	3.16	167.0		44.0	47.9	2250	1.82	34.625	1.88	27.707	39.7	2.428							
1959A	2.04	34.598	1.52	3.06	177.0		43.0	43.4	2500	1.70	34.640	2.17	27.728	37.7	2.548							
2209A	1.84	34.622	1.83	2.99	181.0		42.4	40.1	2750	1.60	34.652	2.46	27.745	36.1	2.663							
2455A	1.72	34.637	2.12	2.89	181.0		41.4	38.1	3000	1.55	34.660	2.72	27.755	35.1	2.776							
2704A	1.61	34.650	2.41	2.84	180.0		40.6	36.3	3250	1.50	34.668	2.98	27.765	34.2	2.888							
2951A	1.56	34.658	2.66	2.81	174.0		39.8	35.3	3500	1.48	34.675	3.16	27.772	33.5	2.998							
3200A	1.51	34.666	2.93	2.73	171.0		39.3	34.4	3750	1.47	34.678	3.28	27.775	33.2	3.110							
3446A	1.480	34.673	3.13	2.68	170.0		39.0	33.7	4000	1.47	34.680	3.37	27.777	33.1	3.222							
3696A	1.471	34.677	3.26	2.65	168.0		38.8	33.3	4250	1.48	34.684	3.43	27.779	32.9	3.335							
3943A	1.471	34.679	3.35	2.64	167.0		38.1	33.1	4500	1.49	34.687	3.49	27.781	32.7	3.450							
4192A	1.48	34.682	3.42	2.59	163.0		37.8	33.0	4750	1.53	34.686	3.55	27.778	33.0	3.567							
4440A	1.483	34.686	3.48	2.61	164.0		37.6	32.7	5000	1.55	34.686	3.62	27.776	33.1	3.688							
4687A	1.52	34.686	3.53	2.57	161.0		37.6	32.9	5250	1.58	34.689	3.68	27.776	33.2	3.810							
4936A	1.54	34.685	3.60	2.56	158.0		37.5	33.2	5500	1.60	34.689	3.70	27.774	33.4	3.936							
5184A	1.57	34.688	3.68	2.55	156.0		37.4	33.1														
5382A	1.591	34.688	3.67	2.54	155.0		37.0	33.3														
5532A	1.606	34.688	3.70	2.53	155.0		37.2	33.4														
5632A	1.617	34.688	3.64	2.55	155.0		37.4	33.5														
5678A	1.632	34.688	3.65	2.55	154.0		37.2	33.6														

RV THOMAS WASHINGTON

INDOPAC LEG XVI

17

LATITUDE		LONGITUDE		MO/DAY/YR		MESSENGER		TIME		BOTTOM		WIND		SPEED		WEATHER		DOMINANT WAVES			
35 10.0N		148 59.1W		7/19/77		1440		GMT		5471M		360		11KT		6		010 2 3			
Z	T	S	O2	P04	S103	N02	N03	DT	Z	T	S	O2	SIGT	DT	DD						
1	21.90	34.165	5.22					427.0	0	21.90	34.165	5.22	23.633	427.0	0.000						
11	21.87	34.164	5.26					426.3	10	21.87	34.166	5.26	23.640	426.3	0.043						
21	21.80	34.178	5.26					423.4	20	21.81	34.178	5.26	23.668	423.7	0.085						
40	17.28	34.006	5.92					324.7	30	19.81	34.078	5.55	24.129	379.7	0.125						
70	15.35	33.976	6.03					284.7	50	16.24	33.998	5.96	24.943	302.2	0.194						
99	14.23	33.891	6.00					267.9	75	15.12	33.959	6.02	25.162	281.3	0.267						
124	13.85	33.946	5.88					256.3	100	14.22	33.895	6.00	25.307	267.5	0.337						
148	12.65	33.877	5.80					238.4	125	13.80	33.945	5.87	25.432	255.6	0.403						
173	11.93	33.871	5.89					225.7	150	12.58	33.876	5.81	25.625	237.3	0.465						
198	11.41	33.932	5.63					212.0	200	11.38	33.941	5.61	25.903	210.9	0.579						
248	10.72	34.111	5.18					187.0	250	10.69	34.115	5.17	26.161	186.4	0.681						
297	10.08	34.134	5.09					174.7	300	10.04	34.135	5.09	26.290	174.1	0.774						
398	8.65	34.082	4.72					156.5	400	8.61	34.081	4.70	26.480	156.1	0.946						
497	6.76	33.985	3.73					137.6	500	6.71	33.985	3.69	26.680	137.1	1.100						
596	5.35	33.975	2.45					121.4	600	5.33	33.977	2.43	26.849	121.1	1.236						
698	4.41	34.047	1.47					105.9	700	4.40	34.050	1.46	27.011	105.7	1.356						
799	3.95	34.142	1.07					94.2	800	3.95	34.144	1.06	27.133	94.1	1.463						
897	3.79	34.255	0.38					84.2	1000	3.57	34.332	0.28	27.320	76.8	1.648						
996	3.58	34.324	0.28					77.0	1200	3.18	34.427	0.30	27.434	65.6	1.807						
1195	3.19	34.425	0.30					65.9													

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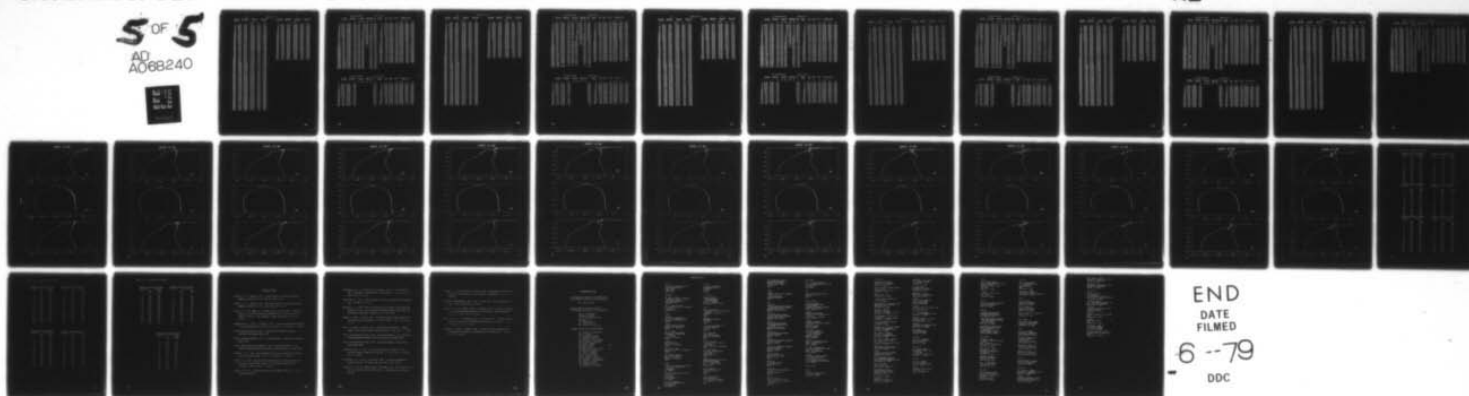
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LATITUDE		LONGITUDE	MO/DAY/YR		START TIME	LATITUDE		LONGITUDE	MO/
35 10.2N		149 59.4W	07/10/77		1908 GMT	35 09.8N		148 59.5W	07
Z	T	S	SIGMA T	DT	DD	Z	T	S	SIGMA
0	22.39	34.51	23.757	415.1	0.000	0	21.87	34.15	23.6
10	22.34	34.51	23.771	413.8	0.041	10	21.86	34.15	23.6
20	22.31	34.51	23.780	413.0	0.083	20	21.84	34.16	23.6
30	18.20	33.98	24.463	347.9	0.121	30	20.84	34.05	23.6
40	17.39	34.00	24.675	327.7	0.155	40	17.90	34.00	24.5
50	16.63	33.99	24.847	311.3	0.187	50	17.00	34.01	24.7
75	15.30	33.96	25.125	284.8	0.262	75	15.55	33.98	25.0
100	14.48	33.90	25.257	272.3	0.332	100	14.54	33.90	25.2
125	13.85	33.91	25.397	259.0	0.399	125	13.95	33.92	25.3
150	13.33	33.90	25.496	249.6	0.464	150	12.72	33.85	25.5
175	12.82	33.89	25.590	240.6	0.526	175	12.17	33.86	25.6
200	12.24	33.89	25.702	229.9	0.586	200	11.49	33.90	25.6
225	11.64	33.92	25.839	216.9	0.643	225	11.04	33.98	25.9
250	11.19	33.98	25.968	204.7	0.697	250	10.74	34.09	26.1
275	10.84	34.06	26.093	192.8	0.749	275	10.52	34.15	26.2
300	10.55	34.13	26.199	182.8	0.797	300	10.01	34.12	26.2
350	9.66	34.12	26.343	169.1	0.888	350	9.29	34.09	26.3
400	8.80	34.09	26.459	158.1	0.974	400	8.54	34.06	26.4
450	7.93	34.05	26.560	148.5	1.054	450	7.80	34.03	26.5
500	7.07	34.01	26.652	139.8	1.130	500	6.73	33.97	26.6
550	6.14	33.98	26.752	130.3	1.201	550	5.95	33.96	26.7
600	5.48	33.98	26.834	122.5	1.268	600	5.32	33.97	26.8
650	4.90	34.00	26.917	114.6	1.331	650	4.80	34.00	26.9
700	4.52	34.05	26.999	106.8	1.390	700	4.37	34.05	27.0
750	4.19	34.11	27.082	99.0	1.444	750	4.11	34.09	27.0
800	4.00	34.16	27.141	93.4	1.496	800	3.92	34.15	27.1
850	3.88	34.22	27.201	87.7	1.545	850	3.78	34.20	27.1
900	3.77	34.26	27.244	83.6	1.591	900	3.76	34.26	27.2
950	3.66	34.31	27.294	78.8	1.636	950	3.67	34.30	27.2
1000	3.56	34.35	27.336	74.9	1.678	1000	3.48	34.33	27.3
1100	3.36	34.42	27.411	67.7	1.757	1100	3.34	34.39	27.3
1200	3.14	34.45	27.456	63.5	1.831	1177	3.16	34.42	27.4
1300	2.96	34.48	27.496	59.7	1.901				
1400	2.85	34.52	27.538	55.7	1.968				
1500	2.68	34.54	27.569	52.8	2.031				
1600	2.489	34.560	27.601	49.7	2.091				
1700	2.339	34.568	27.620	47.9	2.149				
1800	2.205	34.584	27.644	45.7	2.205				
1900	2.108	34.597	27.662	43.9	2.258				
2000	2.008	34.606	27.678	42.5	2.310				
2100	1.925	34.615	27.691	41.2	2.361				
2200	1.860	34.625	27.704	40.0	2.410				
2300	1.807	34.631	27.713	39.1	2.459				
2400	1.758	34.637	27.722	38.3	2.507				
2500	1.716	34.642	27.729	37.6	2.554				
2600	1.679	34.647	27.736	37.0	2.600				
2700	1.637	34.654	27.744	36.2	2.646				
2800	1.603	34.657	27.749	35.7	2.692				
2900	1.575	34.659	27.753	35.4	2.737				
3000	1.551	34.663	27.758	34.9	2.782				
3100	1.533	34.665	27.761	34.6	2.827				
3200	1.512	34.669	27.766	34.2	2.871				
3300	1.500	34.672	27.769	33.9	2.915				
3400	1.491	34.673	27.770	33.7	2.960				
3500	1.484	34.673	27.771	33.7	3.004				
3600	1.476	34.676	27.774	33.4	3.048				
3700	1.475	34.678	27.775	33.2	3.093				
3800	1.472	34.679	27.776	33.1	3.138				
3900	1.473	34.680	27.777	33.1	3.182				
4000	1.477	34.680	27.777	33.1	3.227				
4100	1.479	34.680	27.777	33.1	3.273				
4200	1.485	34.682	27.778	33.0	3.318				
4300	1.488	34.683	27.779	32.9	3.364				
4400	1.491	34.683	27.778	33.0	3.410				
4500	1.500	34.683	27.778	33.0	3.457				
4600	1.508	34.685	27.779	32.9	3.503				
4700	1.514	34.684	27.777	33.0	3.550				
4800	1.524	34.685	27.778	33.0	3.598				
4900	1.531	34.685	27.777	33.1	3.646				
5000	1.541	34.685	27.776	33.2	3.694				
5100	1.553	34.686	27.776	33.2	3.743				
5200	1.563	34.686	27.775	33.2	3.792				
5300	1.574	34.686	27.775	33.3	3.842				
5400	1.586	34.688	27.775	33.2	3.892				
5500	1.598	34.687	27.774	33.4	3.942				
5600	1.611	34.688	27.773	33.4	3.993				
5700	1.623	34.688	27.773	33.5	4.044				

LATITUDE		LONGITUDE		MO/DAY/YR		MESSENGER		TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES		
35 10.4N		147 58.3W		7/20/77		1904 2231		GMT	5516M	020	15KT	1	020 8 6		
Z	T	S	U2	P04	SI03	N02	N03	DT	Z	T	S	U2	SI0T	DT	DD
1'	21.57	33.980	5.27	0.12	5.5	0.00	0.0	431.7	0	21.57	33.980	5.27	23.584	431.7	0.000
16	21.07	33.943	5.39	0.12	5.5	0.00	0.0	421.3	10	21.27	33.959	5.34	23.649	425.5	0.043
21	17.87	33.752	5.98	0.14	5.0	0.00	0.0	356.8	20	18.53	33.783	5.86	24.230	370.1	0.083
40	14.84	33.709	6.08	0.16	4.8	0.00	0.0	293.6	30	16.43	33.720	6.03	24.684	326.9	0.118
70	13.56	33.919	6.40	0.17	6.3	0.00	0.0	252.7	50	14.18	33.784	6.22	25.230	274.8	0.178
98	12.31	33.863	5.97	0.37	7.5	0.31	2.4	233.2	75	13.32	33.917	6.34	25.511	248.2	0.244
123	11.74	33.852	5.79	0.51	9.0	0.03	5.2	223.7	100	12.26	33.863	5.95	25.676	232.4	0.304
147	10.97	33.862	5.68	0.66	10.8	0.01	7.9	209.6	125	11.67	33.852	5.78	25.780	222.5	0.362
172	10.91	33.961	5.61	0.70	12.0	0.01	8.9	201.3	150	10.96	33.877	5.67	25.928	208.5	0.417
197	10.70	34.059	5.37	0.84	14.0	0.01	11.4	190.5	200	10.68	34.070	5.35	26.128	189.5	0.518
246	10.29	34.154	5.19	1.00	18.0	0.00	14.4	176.7	250	10.23	34.154	5.18	26.273	175.7	0.612
294	9.50	34.119	5.05	1.14	22.0	0.00	16.6	166.6	300	9.41	34.116	5.03	26.380	165.6	0.700
394	8.02	34.043	4.51	1.54	33.0	0.00	22.4	150.3	400	7.92	34.038	4.46	26.552	149.2	0.864
494	6.33	33.975	3.56	2.06	53.0	0.00	29.4	133.0	500	6.23	33.975	3.47	26.735	131.9	1.011
593	4.97	33.991	2.19	2.65	79.0	0.00	37.5	116.0	600	4.91	33.997	2.12	26.913	115.0	1.141
691	4.30	34.066	1.44	2.92	98.0	0.00	41.0	103.4	700	4.26	34.075	1.38	27.046	102.4	1.256
791	3.90	34.150	0.85	3.12	113.0	0.00	43.8	93.1	800	3.87	34.160	0.81	27.153	92.2	1.360
889	3.61	34.240	0.49	3.21	126.0	0.00	45.3	83.6	1000	3.56	34.315	0.33	27.327	75.7	1.542
988	3.39	34.306	0.34	3.25	136.0	0.00	46.2	76.6	1200	3.07	34.442	0.40	27.455	63.6	1.697
1111A	3.15	34.390	0.23	3.32	146.0		46.4	68.1	1500	2.55	34.530	0.88	27.572	52.5	1.896
1186	3.09	34.435	0.39	3.31	147.0	0.00	46.2	64.2	1750	2.22	34.578	1.29	27.637	46.4	2.041
1346A	2.79	34.487	0.52	3.26	154.0		46.0	57.7	2000	1.98	34.607	1.60	27.680	42.3	2.173
1586A	2.43	34.549	1.10	3.17	165.0		45.2	50.1	2250	1.81	34.625	1.90	27.707	39.6	2.298
1827A	2.14	34.587	1.36	3.09	174.0		44.0	44.9	2500	1.71	34.638	2.18	27.725	37.9	2.417
2070A	1.92	34.612	1.70	3.02	178.0		42.7	41.4	2750	1.62	34.649	2.47	27.741	36.5	2.533
2314A	1.78	34.629	1.97	2.94	182.0		41.8	39.1	3000	1.55	34.659	2.75	27.754	35.3	2.647
2559A	1.69	34.640	2.25	2.86	180.0		41.4	37.6	3250	1.51	34.666	2.98	27.763	34.4	2.759
2804A	1.60	34.650	2.53	2.81	177.0		40.7	36.2	3500	1.48	34.673	3.15	27.770	33.7	2.871
3050A	1.54	34.660	2.80	2.76	175.0		40.2	35.0	3750	1.48	34.677	3.26	27.774	33.4	2.982
3296A	1.50	34.667	3.02	2.70	172.0		39.2	34.2	4000	1.47	34.680	3.37	27.777	33.1	3.095
3542A	1.48	34.673	3.17	2.67	170.0		39.0	33.7	4250	1.48	34.682	3.42	27.777	33.0	3.208
3788A	1.480	34.677	3.28	2.65	168.0		38.8	33.3	4500	1.50	34.683	3.47	27.777	33.0	3.324
4035A	1.47	34.680	3.38	2.64	168.0		38.5	33.1	4750	1.53	34.686	3.52	27.778	33.0	3.442
4282A	1.48	34.681	3.42	2.61	168.0		38.5	33.0	5000	1.55	34.687	3.59	27.776	33.2	3.562
4530A	1.503	34.683	3.48	2.60	164.0		38.2	33.0	5250	1.58	34.687	3.61	27.774	33.3	3.685
4776A	1.530	34.686	3.53	2.57	162.0		38.0	33.0	5500	1.61	34.686	3.63	27.772	33.6	3.811
5023A	1.555	34.686	3.60	2.57	159.0		37.8	33.2							
5220A	1.576	34.686	3.61	2.55	158.0		37.8	33.3							
5368A	1.588	34.687	3.62	2.54	156.0		37.8	33.3							
5466A	1.598	34.687	3.63	2.56	156.0		37.8	33.4							
5516A	1.61	34.686	3.62	2.56	157.0		37.8	33.6							

LATITUDE		LONGITUDE		MO/DAY/YR		MESSENGER		TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES		
35 09.8N		147 00.4W		7/21/77		1915		GMT	5366M	060	8KT	1	020 3 7		
Z	T	S	U2	P04	SI03	N02	N03	DT	Z	T	S	U2	SI0T	DT	DD
1	21.71	34.147	5.24					423.3	0	21.71	34.147	5.24	23.672	423.3	0.000
11	21.61	34.142	5.28					421.0	10	21.62	34.143	5.28	23.694	421.2	0.042
21	21.58	34.140	5.26					420.4	20	21.58	34.141	5.26	23.702	420.4	0.084
41	17.11	33.966	5.95					323.8	30	19.77	34.039	5.54	24.109	361.6	0.125
71	15.27	34.100	5.97					274.0	50	16.25	34.013	5.96	24.950	301.5	0.193
100	13.45	33.907	6.01					251.4	75	15.02	34.084	5.98	25.282	269.9	0.265
125	11.97	33.736	5.99					236.4	100	13.45	33.907	6.01	25.477	251.4	0.331
150	11.18	33.706	5.97					224.7	125	11.97	33.736	5.99	25.635	236.4	0.392
175	11.05	33.860	5.79					211.1	150	11.18	33.706	5.97	25.757	224.7	0.451
200	10.99	34.015	5.49					198.7	200	10.99	34.015	5.49	26.031	198.7	0.559
250	10.44	34.146	5.13					179.7	250	10.44	34.146	5.13	26.230	179.7	0.656
300	9.50	34.113	5.01					167.1	300	9.50	34.113	5.01	26.364	167.1	0.745
399	7.87	34.040	4.41					148.4	400	7.85	34.040	4.40	26.563	148.2	0.909
498	6.18	33.967	3.30					131.7	500	6.15	33.968	3.27	26.740	131.4	1.056
597	4.95	33.990	2.00					115.9	600	4.92	33.994	1.97	26.909	115.4	1.186
695	4.27	34.083	1.15					101.8	700	4.25	34.089	1.12	27.058	101.3	1.300
795	4.05	34.183	0.61					92.1	800	4.04	34.189	0.59	27.159	91.6	1.404
894	3.80	34.272	0.33					83.0	1000	3.53	34.344	0.26	27.334	75.0	1.565
993	3.54	34.339	0.23					75.5	1200	3.24	34.454	0.41	27.450	64.1	1.741
1193	3.25	34.451	0.40					64.4							

LATITUDE			LONGITUDE			MO/DAY/YR			START TIME			LATITUDE			LONGITUDE			MO/DAY/YR			START TIME			
35 10.4N			148 00.2W			07/20/77			1722 GMT			35 09.8N			147 00.1W			07/21/77			1837 GMT			
Z	T	S	SIGMA T	DT	DD	Z	T	S	SIGMA T	DT	DD	Z	T	S	SIGMA T	DT	DD	Z	T	S	SIGMA T	DT	DD	
0	21.50	33.97	23.596	430.6	0.000	0	21.63	34.15	23.697	420.9	0.000	10	21.51	33.97	23.593	430.8	0.043	10	21.62	34.14	23.692	421.4	0.042	
10	21.51	33.97	23.593	430.8	0.043	20	21.36	33.96	23.627	427.6	0.086	20	21.59	34.14	23.700	420.6	0.084	20	21.59	34.14	23.700	420.6	0.084	
20	21.36	33.96	23.627	427.6	0.086	30	17.63	33.68	24.373	356.5	0.125	30	19.64	33.89	24.031	389.1	0.125	30	19.64	33.89	24.031	389.1	0.125	
30	17.63	33.68	24.373	356.5	0.125	40	15.91	33.70	24.790	316.8	0.159	40	18.12	33.95	24.460	348.2	0.162	40	18.12	33.95	24.460	348.2	0.162	
40	15.91	33.70	24.790	316.8	0.159	50	14.94	33.69	24.997	297.1	0.190	50	16.63	33.92	24.793	316.4	0.195	50	16.63	33.92	24.793	316.4	0.195	
50	14.94	33.69	24.997	297.1	0.190	75	13.38	33.82	25.424	256.4	0.260	75	15.12	34.07	25.249	273.0	0.269	75	15.12	34.07	25.249	273.0	0.269	
75	13.38	33.82	25.424	256.4	0.260	100	12.88	33.89	25.578	241.8	0.322	100	13.92	33.92	25.390	259.6	0.337	100	13.92	33.92	25.390	259.6	0.337	
100	12.88	33.89	25.578	241.8	0.322	125	11.92	33.84	25.725	227.8	0.382	125	12.24	33.75	25.594	240.2	0.400	125	12.24	33.75	25.594	240.2	0.400	
125	11.92	33.84	25.725	227.8	0.382	150	11.30	33.83	25.832	217.6	0.438	150	11.25	33.68	25.725	227.8	0.459	150	11.25	33.68	25.725	227.8	0.459	
150	11.30	33.83	25.832	217.6	0.438	175	10.97	33.96	25.992	202.4	0.492	175	10.97	33.85	25.907	210.5	0.515	175	10.97	33.85	25.907	210.5	0.515	
175	10.97	33.96	25.992	202.4	0.492	200	10.78	34.03	26.080	194.0	0.542	200	11.00	34.00	26.018	199.9	0.567	200	11.00	34.00	26.018	199.9	0.567	
200	10.78	34.03	26.080	194.0	0.542	225	10.56	34.11	26.182	184.4	0.591	225	10.82	34.10	26.128	189.5	0.617	225	10.82	34.10	26.128	189.5	0.617	
225	10.56	34.11	26.182	184.4	0.591	250	10.29	34.13	26.244	178.5	0.637	250	10.49	34.14	26.217	181.0	0.665	250	10.49	34.14	26.217	181.0	0.665	
250	10.29	34.13	26.244	178.5	0.637	275	9.91	34.12	26.301	173.0	0.683	275	10.13	34.14	26.279	175.1	0.711	275	10.13	34.14	26.279	175.1	0.711	
275	9.91	34.12	26.301	173.0	0.683	300	9.52	34.12	26.366	166.5	0.727	300	9.66	34.12	26.343	169.1	0.755	300	9.66	34.12	26.343	169.1	0.755	
300	9.52	34.12	26.366	166.5	0.727	350	8.81	34.08	26.449	159.0	0.811	350	8.68	34.06	26.454	158.5	0.840	350	8.68	34.06	26.454	158.5	0.840	
350	8.81	34.08	26.449	159.0	0.811	400	8.01	34.04	26.540	150.3	0.892	400	7.92	34.04	26.554	149.1	0.920	400	7.92	34.04	26.554	149.1	0.920	
400	8.01	34.04	26.540	150.3	0.892	450	7.02	33.99	26.643	140.6	0.968	450	7.06	33.99	26.637	141.1	0.996	450	7.06	33.99	26.637	141.1	0.996	
450	7.02	33.99	26.643	140.6	0.968	500	6.28	33.97	26.726	132.7	1.040	500	6.18	33.96	26.731	132.3	1.068	500	6.18	33.96	26.731	132.3	1.068	
500	6.28	33.97	26.726	132.7	1.040	550	5.70	33.97	26.799	125.0	1.108	550	5.58	33.96	26.806	125.2	1.136	550	5.58	33.96	26.806	125.2	1.136	
550	5.70	33.97	26.799	125.0	1.108	600	5.06	33.99	26.891	117.1	1.172	600	4.91	34.00	26.916	114.7	1.199	600	4.91	34.00	26.916	114.7	1.199	
600	5.06	33.99	26.891	117.1	1.172	650	4.59	34.04	26.983	108.3	1.231	650	4.53	34.03	26.982	108.5	1.258	650	4.53	34.03	26.982	108.5	1.258	
650	4.59	34.04	26.983	108.3	1.231	700	4.26	34.08	27.051	101.9	1.287	700	4.27	34.09	27.057	101.3	1.313	700	4.27	34.09	27.057	101.3	1.313	
700	4.26	34.08	27.051	101.9	1.287	750	4.01	34.12	27.108	96.5	1.340	750	4.13	34.15	27.120	95.4	1.366	750	4.13	34.15	27.120	95.4	1.366	
750	4.01	34.12	27.108	96.5	1.340	800	3.83	34.17	27.166	91.0	1.390	800	4.04	34.19	27.161	91.5	1.416	800	4.04	34.19	27.161	91.5	1.416	
800	3.83	34.17	27.166	91.0	1.390	850	3.67	34.22	27.222	85.7	1.438	850	3.91	34.24	27.214	86.5	1.464	850	3.91	34.24	27.214	86.5	1.464	
850	3.67	34.22	27.222	85.7	1.438	900	3.51	34.27	27.277	80.4	1.483	900	3.77	34.28	27.260	82.1	1.510	900	3.77	34.28	27.260	82.1	1.510	
900	3.51	34.27	27.277	80.4	1.483	950	3.39	34.30	27.313	77.1	1.525	950	3.64	34.31	27.296	78.6	1.554	950	3.64	34.31	27.296	78.6	1.554	
950	3.39	34.30	27.313	77.1	1.525	1000	3.30	34.33	27.345	74.0	1.567	1000	3.53	34.34	27.331	75.3	1.596	1000	3.53	34.34	27.331	75.3	1.596	
1000	3.30	34.33	27.345	74.0	1.567	1100	3.15	34.40	27.415	67.4	1.645	1100	3.40	34.40	27.391	69.6	1.677	1100	3.40	34.40	27.391	69.6	1.677	
1100	3.15	34.40	27.415	67.4	1.645	1200	3.03	34.45	27.466	62.6	1.718	1200	3.22	34.45	27.448	64.2	1.752	1200	3.22	34.45	27.448	64.2	1.752	
1200	3.03	34.45	27.466	62.6	1.718	1300	2.84	34.48	27.507	58.7	1.787													
1300	2.84	34.48	27.507	58.7	1.787	1400	2.70	34.50	27.535	56.0	1.852													
1400	2.70	34.50	27.535	56.0	1.852	1500	2.58	34.53	27.570	52.7	1.915													
1500	2.58	34.53	27.570	52.7	1.915	1600	2.414	34.549	27.599	50.0	1.975													
1600	2.414	34.549	27.599	50.0	1.975	1700	2.277	34.569	27.626	47.4	2.032													
1700	2.277	34.569	27.626	47.4	2.032	1800	2.157	34.583	27.647	45.4	2.087													
1800	2.157	34.583	27.647	45.4	2.087	1900	2.066	34.594	27.663	43.9	2.140													
1900	2.066	34.594	27.663	43.9	2.140	2000	1.981	34.604	27.678	42.5	2.192													
2000	1.981	34.604	27.678	42.5	2.192	2100	1.907	34.614	27.692	41.2	2.243													
2100	1.907	34.614	27.692	41.2	2.243	2200	1.850	34.620	27.701	40.3	2.292													
2200	1.850	34.620	27.701	40.3	2.292	2300	1.794	34.627	27.711	39.3	2.341													
2300	1.794	34.627	27.711	39.3	2.341	2400	1.743	34.635	27.721	38.4	2.389													
2400	1.743	34.635	27.721	38.4	2.389	2500	1.696	34.639	27.728	37.7	2.436													
2500	1.696	34.639	27.728	37.7	2.436	2600	1.649	34.644	27.735	37.0	2.482													
2600	1.649	34.644	27.735	37.0	2.482	2700	1.625	34.648	27.740	36.5	2.529													
2700	1.625	34.648	27.740	36.5	2.529	2800	1.592	34.652	27.746	36.0	2.574													
2800	1.592	34.652	27.746	36.0	2.574	2900	1.565	34.656	27.751	35.5	2.620													
2900	1.565	34.656	27.751	35.5	2.620	3000	1.546	34.658	27.754	35.2	2.665													
3000	1.546	34.658	27.754	35.2	2.665	3100	1.524	34.663	27.760	34.7	2.709													
3100	1.524	34.663	27.760	34.7	2.709	3200	1.511	34.665	27.762	34.5	2.754													
3200	1.511	34.665	27.762	34.5	2.754	3300	1.497	34.666	27.764	34.3	2.799													
3300	1.497	34.666	27.764	34.3	2.799	3400	1.482	34.670	27.769	33.9	2.843													
3400	1.482	34.670	27.769	33.9	2.843	3500	1.475	34.671	27.770	33.8	2.888													
3500	1.475	34.671	27.770	33.8	2.888	3600	1.470	34.673	27.772	33.6	2.932													
3600	1.470	34.673	27.772	33.6	2.932	3700	1.469	34.675	27.773	33.4	2.977													
3700	1.469	34.675	27.773	33.4	2.977	3800	1.467	34.677	27.775	33.3	3.021													
3800	1.467	34.677	27.775	33.3	3.021	3900	1.466	34.678	27.776	33.2	3.066													

LATITUDE		LONGITUDE		MO/DAY/YR		MESSENGER		TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES		
35 10.4N		145 59.1W		7/22/77		0208 0502		GMT	5319M	090	10KT	1	049 5 6		
Z	T	S	Q2	P04	SI03	N02	N03	DT	Z	T	S	Q2	SIGT	DT	DD
1	22.03	34.443	5.12	0.05	4.3	0.00	0.0	410.3	0	22.03	34.443	5.12	23.808	410.3	0.000
16	21.81	34.480	5.23	0.03	4.2	0.00	0.0	401.8	10	21.85	34.459	5.19	23.870	404.3	0.041
21	21.83	34.504	5.21	0.04	4.2	0.00	0.0	400.6	20	21.83	34.498	5.21	23.905	401.0	0.081
41	18.61	34.076	5.78	0.08	4.6	0.00	0.0	350.6	30	20.60	34.324	5.43	24.107	381.8	0.120
71	16.95	34.259	5.85	0.08	4.4	0.00	0.0	298.9	50	17.89	34.104	5.80	24.634	331.6	0.192
100	15.81	34.104	5.84	0.11	4.7	0.00	0.0	285.1	75	16.77	34.244	5.85	25.008	296.0	0.271
125	15.09	34.084	5.80	0.16	5.1	0.04	0.0	271.4	100	15.81	34.104	5.84	25.122	285.1	0.344
150	13.45	33.849	5.79	0.27	6.2	0.03	1.0	255.7	125	15.09	34.084	5.80	25.267	271.4	0.415
174	12.46	33.897	5.55	0.47	8.0	0.02	4.1	233.4	150	13.45	33.849	5.79	25.432	255.7	0.481
199	11.71	33.940	5.42	0.62	9.8	0.01	7.0	216.7	200	11.69	33.945	5.41	25.848	216.1	0.601
249	10.96	34.136	5.09	0.88	14.	0.01	12.0	189.2	250	10.94	34.138	5.09	26.135	188.8	0.705
298	9.96	34.143	5.03	1.09	19.	0.00	15.4	172.1	300	9.93	34.143	5.03	26.316	171.7	0.798
397	8.39	34.069	4.61	1.44	30.	0.00	20.7	153.6	400	8.34	34.067	4.59	26.512	153.1	0.967
496	6.63	33.978	3.60	2.01	49.	0.00	28.6	136.5	500	6.57	33.978	3.54	26.694	135.8	1.119
595	5.25	33.979	2.21	2.62	73.	0.00	37.2	120.0	600	5.19	33.983	2.15	26.869	119.2	1.253
695	4.36	34.060	1.28		97.	0.00	42.0	104.5	700	4.34	34.068	1.24	27.032	103.7	1.371
794	4.03	34.185	0.64	3.17	114.	0.00	44.6	91.8	800	4.01	34.190	0.61	27.163	91.3	1.476
839A	3.90	34.215	0.46	3.22	117.		45.4	88.3	1000	3.59	34.347	0.25	27.331	75.4	1.657
894	3.81	34.267	0.39	3.26	124.	0.00	46.0	83.5	1200	3.14	34.453	0.40	27.458	63.4	1.812
994	3.60	34.342	0.25	3.31	132.	0.00	45.6	75.8	1500	2.60	34.538	0.85	27.573	52.4	2.011
1087A	3.37	34.400	0.29	3.28	139.		46.0	69.4	1750	2.20	34.580	1.28	27.640	46.1	2.156
1334A	2.90	34.497	0.58	3.26	153.		45.8	57.9	2000	1.94	34.608	1.66	27.683	42.0	2.287
1583A	2.46	34.552	0.99	3.18	164.		45.0	50.1	2250	1.79	34.626	1.94	27.709	39.4	2.411
1830A	2.10	34.589	1.42	3.09	174.		44.0	44.5	2500	1.68	34.641	2.17	27.730	37.5	2.529
2078A	1.89	34.613	1.75	3.03	178.		43.1	41.1	2750	1.61	34.652	2.45	27.744	36.2	2.644
2326A	1.76	34.631	2.01	2.93	182.		42.2	38.8	3000	1.55	34.662	2.71	27.756	35.0	2.757
2575A	1.65	34.644	2.24	2.88	179.		41.6	37.0	3250	1.51	34.668	2.93	27.765	34.2	2.869
2822A	1.60	34.654	2.54	2.81	177.		40.9	35.9	3500	1.48	34.674	3.11	27.771	33.6	2.980
3070A	1.537	34.664	2.77	2.79	174.		40.6	34.7	3750	1.48	34.678	3.24	27.774	33.3	3.092
3318A	1.498	34.669	2.98	2.71	172.		39.4	34.1	4000	1.47	34.681	3.31	27.777	33.0	3.204
3567A	1.482	34.675	3.15	2.67	173.		38.7	33.5	4250	1.49	34.685	3.36	27.779	32.9	3.318
3814A	1.48	34.678	3.27	2.65	171.		38.6	33.3	4500	1.51	34.685	3.42	27.778	33.0	3.433
4062A	1.47	34.681	3.32	2.62			38.6	33.0	4750	1.53	34.685	3.51	27.777	33.1	3.552
4311A	1.50	34.685	3.37	2.61	169.		38.4	32.9	5000	1.56	34.687	3.56	27.776	33.2	3.672
4558A	1.51	34.684	3.44	2.58	165.		38.4	33.0	5250	1.59	34.688	3.58	27.775	33.3	3.795
4807A	1.54	34.685	3.53	2.60	164.		38.2	33.2							
5006A	1.562	34.686	3.56	2.58	162.		37.9	33.2							
5135A	1.566														
5248A	1.58	34.689	3.58	2.56	160.		37.6	33.1							
5251A	1.590	34.688						33.3							

LATITUDE		LONGITUDE		MO/DAY/YR		MESSENGER		TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES		
35 09.8N		144 59.4W		7/22/77		1125		GMT	5340M	180	6KT	1	0		
Z	T	S	Q2	P04	SI03	N02	N03	DT	Z	T	S	Q2	SIGT	DT	DD
1	21.54	34.190	5.25					415.7	0	21.54	34.190	5.25	23.752	415.7	0.000
11	21.52	34.185	5.25					415.5	10	21.52	34.186	5.25	23.753	415.5	0.042
21	21.51	34.184	5.25					415.3	20	21.51	34.185	5.25	23.755	415.4	0.083
41	18.60	34.376	5.76					328.6	30	20.32	34.270	5.46	24.142	378.5	0.123
71	17.00	34.289	5.83					297.8	50	17.94	34.340	5.78	24.802	315.6	0.193
99	15.55	34.011	5.86					286.4	75	16.75	34.237	5.83	25.008	295.9	0.270
124	15.75	34.280	5.66					271.0	100	15.56	34.022	5.85	25.114	285.8	0.343
149	13.19	33.834	5.73					251.8	125	15.66	34.265	5.66	25.278	270.3	0.413
174	11.90	33.829	5.66					228.3	150	13.12	33.629	5.73	25.483	250.8	0.479
199	11.59	33.990	5.25					210.9	200	11.57	33.994	5.25	25.909	210.3	0.597
298	9.32	34.075	4.97					167.1	250	10.43	34.092	5.11	26.189	183.7	0.698
348	8.73	34.078	4.75					157.9	300	9.30	34.077	4.96	26.369	166.6	0.788
397	7.88	34.035						148.9	400	7.83	34.033	4.36	26.561	148.4	0.952
497	6.24	33.965	3.35					132.6	500	6.19	33.966	3.31	26.733	132.1	1.099
597	4.96	33.988	2.08					116.2	600	4.93	33.991	2.05	26.905	115.7	1.229
696	4.29	34.074	1.16					102.7	700	4.27	34.080	1.13	27.048	102.2	1.345
795	3.97	34.186	0.60					91.1	800	3.96	34.191	0.58	27.170	90.6	1.448
893	3.746	34.271	0.35					82.6	1000	3.45	34.349	0.29	27.345	73.9	1.627
992	3.47	34.345	0.28					74.4	1200	3.12	34.455	0.42	27.462	63.0	1.780
1192	3.13	34.451	0.41					63.4							

20D

INDOPAC LEG XVI

21

LATITUDE 35 09.9N	LONGITUDE 145 59.0W	MO/DAY/YR 07/22/77	START TIME 0045 GMT			LATITUDE 35 09.7N	LONGITUDE 144 59.6W	MO/DAY/YR 07/22/77	START TIME 1045 GMT		
Z	T	S	SIGMA T	DT	DD	Z	T	S	SIGMA T	DT	DD
0	22.26	34.49	23.779	413.1	0.000	0	21.48	34.16	23.745	416.3	0.000
10	22.20	34.48	23.788	412.2	0.041	10	21.49	34.21	23.781	412.9	0.041
20	21.84	34.52	23.919	399.7	0.082	20	21.48	34.21	23.783	412.7	0.083
30	19.35	34.08	24.250	368.2	0.120	30	20.66	34.15	23.960	395.8	0.123
40	17.86	34.04	24.592	335.6	0.156	40	19.46	34.37	24.442	349.8	0.161
50	17.81	34.34	24.833	312.6	0.188	50	17.92	34.27	24.753	320.2	0.194
75	16.48	34.18	25.027	294.2	0.265	75	16.96	34.31	25.014	295.4	0.272
100	15.96	34.20	25.162	281.3	0.337	100	15.68	34.02	25.087	288.5	0.345
125	14.40	33.91	25.281	269.9	0.407	125	15.58	34.29	25.316	266.6	0.416
150	13.34	33.85	25.455	253.5	0.473	150	12.97	33.75	25.452	253.8	0.482
175	12.27	33.89	25.697	230.5	0.535	175	11.92	33.84	25.725	227.6	0.543
200	11.47	33.97	25.909	210.3	0.591	200	11.45	33.96	25.905	210.7	0.599
225	11.20	34.08	26.044	197.5	0.643	225	10.69	34.00	26.073	194.7	0.651
250	10.77	34.13	26.160	186.4	0.693	250	10.24	34.06	26.198	182.8	0.699
275	10.26	34.14	26.257	177.2	0.739	275	9.80	34.12	26.320	171.3	0.745
300	9.93	34.15	26.321	171.1	0.784	300	9.31	34.11	26.393	164.3	0.782
350	9.17	34.11	26.415	162.2	0.871	350	8.69	34.08	26.468	157.2	0.872
400	8.28	34.06	26.516	152.7	0.953	400	7.86	34.05	26.570	147.5	0.951
450	7.34	34.01	26.614	143.3	1.031	450	7.04	34.00	26.648	140.1	1.024
500	6.38	33.98	26.721	133.2	1.103	500	6.25	33.98	26.738	131.6	1.098
550	5.62	33.98	26.817	124.1	1.171	550	5.46	33.97	26.828	123.0	1.165
600	5.04	34.00	26.901	116.1	1.234	600	4.94	34.00	26.913	115.0	1.227
650	4.61	34.04	26.981	108.5	1.294	650	4.55	34.04	26.988	107.9	1.286
700	4.30	34.08	27.046	102.4	1.350	700	4.26	34.09	27.058	101.2	1.342
750	4.19	34.14	27.106	96.7	1.403	750	4.08	34.14	27.117	95.6	1.394
800	4.02	34.19	27.163	91.3	1.453	800	3.95	34.19	27.170	90.6	1.444
850	3.90	34.24	27.215	86.4	1.501	850	3.83	34.23	27.214	86.5	1.492
900	3.78	34.29	27.267	81.5	1.547	900	3.71	34.26	27.250	83.1	1.538
950	3.67	34.33	27.309	77.4	1.591	950	3.53	34.29	27.291	79.1	1.582
1000	3.56	34.36	27.344	74.1	1.632	1000	3.35	34.33	27.331	75.4	1.624
1100	3.31	34.41	27.408	68.1	1.711	1100	3.30	34.37	27.377	71.0	1.705
1200	3.08	34.45	27.461	63.0	1.785	1200	3.14	34.41	27.424	66.5	1.782
1300	2.94	34.49	27.506	58.8	1.854						
1400	2.80	34.52	27.542	55.3	1.920						
1500	2.62	34.54	27.574	52.3	1.983						
1600	2.445	34.561	27.606	49.3	2.042						
1700	2.301	34.576	27.630	47.0	2.099						
1800	2.159	34.589	27.652	44.9	2.154						
1900	2.057	34.599	27.668	43.4	2.206						
2000	1.974	34.609	27.683	42.0	2.258						
2100	1.903	34.618	27.695	40.8	2.308						
2200	1.842	34.626	27.706	39.8	2.357						
2300	1.791	34.631	27.714	39.0	2.405						
2400	1.741	34.637	27.723	38.2	2.453						
2500	1.700	34.642	27.730	37.5	2.500						
2600	1.662	34.646	27.736	37.0	2.546						
2700	1.625	34.653	27.744	36.2	2.592						
2800	1.602	34.655	27.748	35.9	2.638						
2900	1.581	34.658	27.752	35.5	2.683						
3000	1.549	34.661	27.756	35.0	2.728						
3100	1.537	34.664	27.760	34.7	2.773						
3200	1.518	34.668	27.764	34.3	2.817						
3300	1.502	34.670	27.767	34.0	2.862						
3400	1.495	34.673	27.770	33.7	2.906						
3500	1.485	34.674	27.771	33.6	2.951						
3600	1.478	34.677	27.774	33.3	2.995						
3700	1.477	34.678	27.775	33.2	3.039						
3800	1.479	34.679	27.776	33.2	3.084						
3900	1.476	34.681	27.778	33.0	3.129						
4000	1.482	34.682	27.778	33.0	3.174						
4100	1.486	34.683	27.779	32.9	3.219						
4200	1.490	34.682	27.778	33.0	3.265						
4300	1.494	34.682	27.777	33.1	3.311						
4400	1.502	34.684	27.778	33.0	3.357						
4500	1.509	34.684	27.778	33.0	3.403						
4600	1.515	34.685	27.778	33.0	3.450						
4700	1.525	34.685	27.777	33.0	3.498						
4800	1.533	34.685	27.777	33.1	3.545						
4900	1.542	34.686	27.777	33.1	3.593						
5000	1.550	34.687	27.777	33.1	3.642						
5100	1.560	34.687	27.777	33.1	3.690						
5200	1.571	34.687	27.776	33.2	3.739						
5300	1.584	34.686	27.774	33.4	3.789						

RV THOMAS WASHINGTON

INDOPAC LEG XVI

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LATITUDE 35 10.3N		LONGITUDE 143 59.8W		MO/DAY/YR 7/22/77		MESSENGER 1818 2115		TIME GMT	BOTTOM 5041M	WIND 060	SPEED 14KT	WEATHER 1	DOMINANT WAVES 060 4 6		
Z	T	S	Q2	PQ4	SI03	N02	N03	DT	Z	T	S	Q2	SIGT	DT	DD
0	21.42	34.444	5.23	0.04	4.0	0.00	0.0	394.2	0	21.42	34.444	5.23	23.977	394.2	0.000
15	21.30	34.442	5.29	0.04	4.0	0.00	0.0	391.2	10	21.33	34.443	5.27	24.002	391.8	0.039
20	21.29	34.443	5.27	0.04	3.9	0.00	0.0	390.8	20	21.29	34.443	5.27	24.012	390.8	0.079
40	21.06	34.429	5.34	0.03	3.9	0.00	0.0	385.9	30	21.18	34.437	5.31	24.038	388.4	0.118
70	17.13	34.233	5.87	0.06	4.1	0.00	0.0	304.8	50	19.84	34.358	5.52	24.334	360.2	0.193
99	15.86	34.078	5.87	0.11	4.4	0.00	0.0	288.1	75	16.85	34.214	5.87	24.966	299.9	0.276
124	14.19	33.848	5.90	0.18	4.8	0.01	0.0	270.3	100	15.79	34.068	5.87	25.098	287.4	0.350
149	13.25	33.867	5.58	0.35	6.3	0.08	2.4	250.5	125	14.15	33.849	5.89	25.286	269.5	0.420
174	11.79	33.774	5.46	0.58	8.5	0.02	5.9	230.4	150	13.19	33.864	5.57	25.495	249.7	0.486
199	10.72	33.807	5.30	0.80	11.0	0.00	9.8	209.5	200	10.70	33.813	5.29	25.925	208.7	0.603
249	9.99	34.030	5.07	1.04	17.0	0.00	14.5	181.0	250	9.98	34.033	5.07	26.222	180.6	0.702
298	9.30	34.089	4.97	1.21	22.0	0.00	17.3	165.7	300	9.27	34.090	4.96	26.383	165.3	0.792
398	7.64	34.080	4.32	1.65	36.0	0.00	23.8	146.7	400	7.60	34.019	4.30	26.583	146.3	0.954
497	5.96	33.953	3.08	2.24	58.0	0.00	31.6	130.0	500	5.92	33.956	3.04	26.760	129.5	1.098
598	4.93	33.991	1.97	2.74	79.0	0.00	37.8	115.6	600	4.91	33.994	1.95	26.910	115.3	1.227
696	4.26	34.074	1.19	3.00	99.0	0.00	42.8	102.4	700	4.24	34.080	1.16	27.051	101.9	1.342
795	3.93	34.167	0.65	3.18	116.0	0.00	45.0	90.6	800	3.91	34.193	0.63	27.175	90.1	1.444
894	3.65	34.272	0.38	3.27	125.0	0.00	45.7	81.6	1000	3.40	34.346	0.24	27.348	73.7	1.622
994	3.41	34.342	0.24	3.31	136.0	0.00	46.4	74.1	1200	3.14	34.458	0.46	27.462	62.9	1.775
1056A	3.29	34.379	0.25	3.30	140.0	0.00	46.4	70.2	1500	2.55	34.539	0.90	27.579	51.8	1.973
1192	3.16	34.455	0.45	3.30	145.0	0.00	46.3	63.3	1750	2.21	34.583	1.29	27.642	45.9	2.116
1302A	2.88	34.488	0.55	3.25	153.0	0.00	46.4	58.4	2000	1.97	34.609	1.62	27.682	42.1	2.248
1551A	2.49	34.550	1.00	3.17	163.0	0.00	45.2	50.5	2250	1.81	34.626	1.92	27.708	39.6	2.372
1799A	2.15	34.587	1.36	3.08	173.0	0.00	44.2	45.0	2500	1.70	34.640	2.21	27.728	37.7	2.491
2046A	1.94	34.611	1.68	3.00	178.0	0.00	43.1	41.6	2750	1.60	34.651	2.46	27.744	36.2	2.606
2293A	1.79	34.628	1.97	2.92	181.0	0.00	42.1	39.2	3000	1.54	34.660	2.74	27.756	35.1	2.719
2541A	1.66	34.642	2.25	2.88	178.0	0.00	41.8	37.4	3250	1.50	34.669	2.99	27.766	34.1	2.831
2789A	1.592	34.652	2.50	2.82	174.0	0.00	41.8	36.0	3500	1.47	34.676	3.18	27.773	33.4	2.941
3036A	1.537	34.661	2.78	2.76	172.0	0.00	40.2	35.0	3750	1.46	34.678	3.25	27.776	33.2	3.052
3284A	1.492	34.669	3.02	2.65	168.0	0.00	39.5	34.0	4000	1.48	34.681	3.34	27.777	33.1	3.164
3532A	1.47	34.676	3.20	2.66	168.0	0.00	39.4	33.4	4250	1.48	34.685	3.48	27.778	33.0	3.278
3780A	1.46	34.678	3.25	2.63	168.0	0.00	38.8	33.1	4500	1.51	34.685	3.47	27.778	33.0	3.393
4029A	1.48	34.681	3.35	2.60	169.0	0.00	38.6	33.0	4750	1.52	34.687	3.53	27.778	33.0	3.511
4275A	1.485	34.682	3.49	2.60	167.0	0.00	38.0	33.0	5000	1.55	34.687	3.61	27.777	33.1	3.631
4525A	1.510	34.685	3.47	2.60	164.0	0.00	38.4	32.9							
4723A	1.523	34.686	3.52	2.57	161.0	0.00	38.3	33.0							
4872A	1.534	34.687	3.57	2.55	158.0	0.00	37.9	33.0							
4972A	1.544	34.687	3.62	2.55	158.0	0.00	37.9	33.0							
5021A	1.556	34.686	3.59	2.55	157.0	0.00	38.0	33.2							

RV THOMAS WASHINGTON

INDOPAC LEG XVI

23

LATITUDE 35 10.4N		LONGITUDE 143 00.3W		MO/DAY/YR 7/23/77		MESSENGER 0340 GMT		TIME GMT	BOTTOM 5338M	WIND 060	SPEED 19KT	WEATHER 1	DOMINANT WAVES 060 6 6		
Z	T	S	Q2	PQ4	SI03	N02	N03	DT	Z	T	S	Q2	SIGT	DT	DD
1	21.19	34.302	5.26					398.4	0	21.19	34.302	5.26	23.932	398.4	0.000
11	21.18	34.301	5.29					398.3	10	21.18	34.302	5.29	23.934	398.3	0.040
21	20.88	34.410	5.36					382.6	20	20.91	34.400	5.35	24.081	384.2	0.079
41	20.46	34.379	5.44					374.1	30	20.74	34.410	5.39	24.136	379.0	0.117
70	16.70	34.010	5.92					311.4	50	19.26	34.245	5.60	24.397	354.2	0.191
99	15.82	33.919	5.79					298.9	75	16.55	34.000	5.92	24.873	308.8	0.274
124	15.82	34.043	5.76					289.8	100	15.82	33.924	5.79	24.981	298.6	0.351
148	14.07	33.795	5.60					271.8	125	15.76	34.036	5.75	25.079	289.2	0.425
173	12.40	33.687	5.61					247.8	150	13.92	33.782	5.60	25.282	269.9	0.496
198	11.41	33.721	5.46					227.6	200	11.34	33.730	5.44	25.746	225.8	0.622
248	9.87	33.925	5.11					186.8	250	9.83	33.933	5.10	26.168	185.7	0.727
296	9.08	34.039	4.97					166.1	300	9.01	34.042	4.95	26.387	164.9	0.818
396	7.43	33.997	4.17					145.5	400	7.37	33.996	4.12	26.598	144.9	0.979
495	6.00	33.957	2.84					130.3	500	5.93	33.959	2.78	26.760	129.5	1.122
594	4.86	34.002	1.71					114.0	600	4.82	34.010	1.65	26.933	113.1	1.250
693	4.41	34.115	0.89					100.8	700	4.38	34.123	0.85	27.071	100.0	1.363
793	4.02	34.201	0.50					90.5	800	4.00	34.209	0.48	27.179	89.8	1.464
891	3.82	34.297	0.28					81.3	1000	3.63	34.378	0.28	27.351	73.4	1.643
990	3.65	34.373	0.27					74.0	1200	3.22	34.463	0.45	27.459	63.3	1.796
1188	3.24	34.458	0.44					63.8							

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INDOPAC LEG XVI

23

LATITUDE		LONGITUDE	MO/DAY/YR		START TIME	LATITUDE		LONGITUDE	MO/DAY/YR		START TIME
35 10.4N		144 00.8E	07/22/77		1656 GMT	35 10.0N		142 59.4E	07/23/77		0305 GMT
Z	T	S	SIGMA T	DT	DD	Z	T	S	SIGMA T	DT	DD
0	21.25	34.43	24.013	390.7	0.000	0	21.19	34.30	23.931	396.6	0.000
10	21.25	34.43	24.013	390.7	0.039	10	21.17	34.31	23.944	397.3	0.040
20	21.20	34.42	24.019	390.2	0.078	20	20.99	34.39	24.053	386.9	0.079
30	21.08	34.42	24.052	387.0	0.117	30	20.83	34.43	24.127	379.4	0.118
40	19.70	34.23	24.274	365.9	0.155	40	20.43	34.37	24.186	374.0	0.155
50	17.66	34.06	24.656	323.5	0.190	50	17.84	34.09	24.623	332.6	0.191
75	16.66	34.16	24.970	299.6	0.269	75	16.29	33.94	24.687	307.5	0.271
100	15.30	33.91	25.087	288.5	0.343	100	15.84	33.94	24.989	297.7	0.348
125	14.29	33.81	25.228	275.1	0.414	125	15.11	33.86	25.105	286.7	0.421
150	13.27	33.60	25.431	255.6	0.482	150	13.36	33.72	25.351	263.4	0.491
175	11.89	33.72	25.637	236.1	0.544	175	12.44	33.79	25.587	240.9	0.555
200	10.72	33.79	25.905	210.7	0.601	200	10.63	33.67	25.827	218.1	0.614
225	10.36	33.93	26.076	194.4	0.653	225	10.01	33.84	26.066	195.4	0.666
250	9.93	34.04	26.235	179.3	0.701	250	9.65	33.95	26.212	181.5	0.715
275	9.50	34.07	26.331	170.3	0.746	275	9.31	34.02	26.323	171.0	0.760
300	9.05	34.07	26.404	163.3	0.789	300	8.93	34.04	26.399	163.7	0.803
350	8.23	34.04	26.508	153.5	0.871	350	8.10	34.02	26.511	153.1	0.886
400	7.36	33.99	26.596	145.1	0.944	400	7.26	33.99	26.610	143.8	0.963
450	6.43	33.96	26.699	135.3	1.022	450	6.44	33.96	26.697	135.5	1.046
500	5.69	33.96	26.792	126.4	1.091	500	5.90	33.96	26.766	128.9	1.105
550	5.15	33.98	26.873	118.8	1.155	550	5.27	33.97	26.851	120.9	1.171
600	4.69	34.02	26.956	110.9	1.215	600	4.75	34.01	26.942	112.3	1.242
650	4.35	34.06	27.025	104.4	1.272	650	4.44	34.06	27.015	105.3	1.289
700	4.13	34.12	27.096	97.6	1.326	700	4.37	34.13	27.078	99.3	1.344
750	3.96	34.19	27.169	90.7	1.376	750	4.10	34.16	27.131	94.3	1.395
800	3.80	34.23	27.217	86.2	1.424	800	3.96	34.21	27.185	89.2	1.445
850	3.69	34.27	27.260	82.1	1.469	850	3.86	34.26	27.235	84.5	1.492
900	3.58	34.30	27.294	78.8	1.513	900	3.78	34.30	27.275	80.7	1.537
950	3.48	34.34	27.336	74.9	1.555	950	3.70	34.35	27.322	76.2	1.580
1000	3.36	34.38	27.379	70.8	1.595	1000	3.63	34.38	27.353	73.3	1.621
1100	3.26	34.43	27.429	66.1	1.671	1100	3.47	34.44	27.416	67.2	1.700
1200	3.06	34.46	27.471	62.1	1.743						
1300	2.86	34.49	27.513	58.1	1.812						
1400	2.72	34.52	27.550	54.6	1.876						
1500	2.56	34.54	27.579	51.8	1.938						
1600	2.396	34.562	27.611	48.8	1.997						
1700	2.265	34.577	27.634	46.7	2.053						
1800	2.126	34.590	27.655	44.6	2.107						
1900	2.041	34.600	27.670	43.2	2.160						
2000	1.973	34.609	27.683	42.0	2.211						
2100	1.899	34.619	27.696	40.7	2.261						
2200	1.833	34.627	27.708	39.6	2.310						
2300	1.792	34.633	27.716	38.9	2.358						
2400	1.747	34.637	27.722	38.3	2.406						
2500	1.706	34.642	27.730	37.6	2.453						
2600	1.664	34.649	27.738	36.8	2.499						
2700	1.625	34.652	27.744	36.3	2.545						
2800	1.595	34.655	27.748	35.8	2.590						
2900	1.571	34.658	27.752	35.4	2.636						
3000	1.542	34.663	27.758	34.8	2.680						
3100	1.525	34.665	27.761	34.6	2.725						
3200	1.509	34.670	27.767	34.1	2.769						
3300	1.491	34.672	27.769	33.8	2.813						
3400	1.488	34.674	27.771	33.6	2.858						
3500	1.479	34.675	27.773	33.5	2.902						
3600	1.474	34.676	27.774	33.4	2.946						
3700	1.472	34.679	27.776	33.1	2.990						
3800	1.473	34.680	27.777	33.1	3.035						
3900	1.476	34.681	27.778	33.0	3.080						
4000	1.477	34.681	27.778	33.0	3.125						
4100	1.478	34.682	27.778	32.9	3.170						
4200	1.486	34.684	27.779	32.5	3.215						
4300	1.492	34.683	27.778	33.0	3.261						
4400	1.498	34.683	27.778	33.0	3.307						
4500	1.504	34.684	27.778	33.0	3.354						
4600	1.511	34.685	27.778	32.9	3.401						
4700	1.518	34.686	27.779	32.9	3.448						
4800	1.527	34.686	27.778	33.0	3.495						
4900	1.535	34.686	27.778	33.0	3.543						
5000	1.548	34.687	27.777	33.1	3.591						

RV THOMAS WASHINGTON

INDOPAC LEG XVI

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LATITUDE		LONGITUDE		MO/DAY/YR		MESSENGER		TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES		
35 09.3N		142 00.3W		7/23/77		1043 1339		GMT	5307M	120	10KT	1	060	4	6
Z	T	S	O2	P04	S103	N02	N03	DT	Z	T	S	O2	SIGT	DT	DD
1	20.89	33.979	5.30	0.10	4.0	0.01	0.0	414.1	0	20.89	33.979	5.30	23.769	414.1	0.000
16	20.85	33.975	5.33	0.10	4.0	0.01	0.0	413.3	10	20.87	33.978	5.32	23.772	413.7	0.041
21	20.83	33.974	5.39	0.10	4.1	0.01	0.0	412.9	20	20.83	33.975	5.38	23.780	413.0	0.063
41	18.28	33.881	5.79	0.11	4.2	0.00	0.0	356.9	30	19.87	33.933	5.57	24.002	391.8	0.123
70	16.20	33.835	5.97	0.13	4.1	0.00	0.0	313.2	50	17.37	33.856	5.85	24.568	337.9	0.196
99	15.85	33.880	5.85	0.13	4.2	0.00	0.0	302.4	75	16.14	33.840	5.96	24.845	311.5	0.278
124	15.84	33.971	5.76	0.13	4.2	0.00	0.0	295.5	100	15.85	33.886	5.85	24.945	302.0	0.355
149	15.75	34.006	5.68	0.15	4.3	0.11	0.0	291.0	125	15.84	33.973	5.76	25.015	295.3	0.431
174	14.77	33.844	5.70	0.20	4.7	0.10	0.2	282.3	150	15.73	34.002	5.68	25.062	290.8	0.505
199	13.13	33.726	5.62	0.38	6.2	0.02	2.2	258.6	200	13.06	33.727	5.61	25.414	257.4	0.645
249	10.50	33.833	5.27	0.84	12.8	0.01	10.5	203.9	250	10.47	33.839	5.26	25.985	203.1	0.762
298	9.68	34.044	5.03	1.10	20.	0.01	15.5	175.0	300	9.65	34.048	5.02	26.288	174.3	0.859
398	8.00	34.022	4.47	1.54	32.	0.01	22.2	151.5	400	7.96	34.021	4.44	26.532	151.1	1.029
498	6.23	33.954	2.95	2.24	55.	0.00	32.0	133.3	500	6.20	33.955	2.92	26.723	133.0	1.177
598	5.17	34.009	1.63	2.80	77.	0.00	39.4	116.9	600	5.16	34.012	1.61	26.896	116.6	1.309
697	4.66	34.123	0.82	3.11	95.	0.00	43.0	102.8	700	4.65	34.128	0.80	27.045	102.4	1.425
797	4.44	34.251	0.37	3.26	107.	0.00	44.6	90.9	800	4.43	34.255	0.36	27.170	90.6	1.529
811A	4.40	34.264	0.33	3.26	108.		45.0	89.5	1000	3.64	34.349	0.26	27.327	75.8	1.711
896	3.95	34.301	0.35	3.28	119.	0.00	45.6	82.3	1200	3.18	34.457	0.38	27.457	63.4	1.867
996	3.65	34.345	0.26	3.31	131.	0.00	45.8	76.1	1500	2.64	34.532	0.82	27.565	53.1	2.066
1057A	3.49	34.392	0.26	3.31	134.		46.6	71.0	1750	2.24	34.576	1.21	27.634	46.7	2.215
1303A	2.99	34.483	0.52	3.25	151.		46.2	59.7	2000	1.98	34.608	1.62	27.680	42.3	2.347
1550A	2.56	34.541	0.90	3.19	163.		45.4	51.7	2250	1.82	34.628	1.91	27.709	39.5	2.472
1796A	2.18	34.581	1.28	3.09	173.		44.2	45.7	2500	1.71	34.640	2.16	27.727	37.8	2.591
2042A	1.95	34.611	1.69	3.00	177.		43.0	41.7	2750	1.64	34.651	2.41	27.741	36.5	2.707
2287A	1.80	34.629	1.94	2.95	181.		42.4	39.2	3000	1.56	34.660	2.69	27.754	35.3	2.821
2534A	1.70	34.641	2.19	2.88	181.		41.8	37.6	3250	1.52	34.667	2.91	27.763	34.4	2.934
2780A	1.63	34.651	2.44	2.83	177.		41.0	36.4	3500	1.49	34.673	3.09	27.770	33.8	3.045
3026A	1.553	34.660	2.72	2.75	176.		40.4	35.1	3750	1.48	34.677	3.23	27.774	33.4	3.157
3271A	1.513	34.667	2.93	2.70	172.		39.8	34.3	4000	1.47	34.681	3.31	27.777	33.1	3.269
3517A	1.49	34.673	3.10	2.66	169.		39.3	33.7	4250	1.49	34.683	3.38	27.777	33.0	3.383
3763A	1.48	34.677	3.24	2.64	169.		38.6	33.3	4500	1.51	34.685	3.45	27.778	33.0	3.499
4008A	1.469	34.680	3.31	2.60	168.		38.6	33.0	4750	1.53	34.686	3.52	27.777	33.1	3.617
4253A	1.492	34.682	3.38	2.60	167.		38.3	33.0	5000	1.55	34.687	3.58	27.777	33.1	3.737
4499A	1.51	34.684	3.45	2.60	164.		38.2	33.0							
4745A	1.530	34.685	3.52	2.57	162.		37.9	33.1							
4941A	1.547	34.686	3.58	2.56	159.		37.8	33.1							
5087A	1.560														
5186A	1.576	34.689	3.58	2.55	158.		37.6	33.1							
5234A	1.58	34.688	3.60	2.55	157.		37.6	33.2							

RV THOMAS WASHINGTON

INDOPAC LEG XVI

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LATITUDE		LONGITUDE		MO/DAY/YR		MESSENGER		TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES		
35 09.9N		141 00.0W		7/23/77		1943		GMT	5253M	170	9KT	1	170	4	2
Z	T	S	O2	P04	S103	N02	N03	DT	Z	T	S	O2	SIGT	DT	DD
1	21.06	33.873	5.29					426.1	0	21.06	33.873	5.29	23.642	426.1	0.000
11	20.96	33.904	5.33					421.3	10	20.97	33.902	5.33	23.688	421.8	0.042
21	18.64	33.879	5.76					365.6	20	18.90	33.882	5.71	24.211	371.9	0.082
41	16.32	33.823	5.90					316.7	30	17.31	33.854	5.82	24.583	336.5	0.118
71	15.82	33.860	5.78					303.2	50	16.17	33.835	5.88	24.833	312.6	0.183
100	15.72	33.933	5.77					295.7	75	15.81	33.877	5.78	24.945	301.9	0.260
125	15.10	33.835	5.76					289.8	100	15.72	33.933	5.77	25.011	295.7	0.335
150	13.95	33.662	5.63					279.1	125	15.10	33.835	5.76	25.073	289.8	0.409
175	12.97	33.644	5.62					261.5	150	13.95	33.662	5.63	25.185	279.1	0.481
200	11.77	33.693	5.57					236.0	200	11.77	33.693	5.57	25.639	236.0	0.612
250	10.28	33.928	5.16					193.2	250	10.28	33.928	5.16	26.089	193.2	0.722
300	9.43	34.043	4.97					171.2	300	9.43	34.043	4.97	26.321	171.2	0.816
400	7.68	34.010	4.28					148.0	400	7.68	34.010	4.28	26.565	148.0	0.962
500	6.08	33.962	2.90					130.9	500	6.08	33.962	2.90	26.745	130.9	1.128
600	4.94	33.997	1.77					115.3	600	4.94	33.997	1.77	26.910	115.3	1.257
699	4.41	34.096	1.00					102.3	700	4.41	34.098	0.99	27.049	102.1	1.373
799	4.06	34.207	0.49					90.4	800	4.06	34.209	0.49	27.173	90.3	1.476
897	3.82	34.292	0.31					81.7	1000	3.52	34.360	0.27	27.347	73.9	1.655
997	3.53	34.357	0.27					74.1	1200	3.17	34.447	0.38	27.451	64.0	1.809
1197	3.179	34.446	0.38					64.2							

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INDOPAC LEG XVI

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LATITUDE		LONGITUDE	MO/DAY/YR		START TIME	LATITUDE		LONGITUDE	MO/DAY/YR		START TIME
35 09.8N		142 00.5W	07/23/77		0912 GMT	35 10.0N		141 00.5W	07/23/77		1909 GMT
Z	T	S	SIGMA T	DT	DD	Z	T	S	SIGMA T	DT	DD
0	20.86	33.98	23.777	413.2	0.000	0	20.98	33.86	23.654	425.0	0.000
10	20.86	33.98	23.777	413.2	0.041	10	20.96	33.86	23.659	424.5	0.042
20	20.86	33.98	23.777	413.2	0.083	20	20.85	33.93	23.742	416.6	0.085
30	19.99	33.88	23.932	398.5	0.123	30	18.97	33.88	24.195	373.5	0.124
40	18.32	33.85	24.334	360.2	0.161	40	17.39	33.81	24.530	341.5	0.160
50	17.32	33.84	24.570	337.7	0.196	50	16.32	33.82	24.788	316.9	0.193
75	15.98	33.83	24.873	308.8	0.278	75	15.81	33.88	24.950	301.5	0.271
100	15.75	33.88	24.964	300.2	0.355	100	15.77	33.96	25.021	294.8	0.346
125	15.90	34.00	25.022	294.6	0.430	125	15.11	33.82	25.059	291.1	0.420
150	15.79	34.01	25.054	291.6	0.504	150	13.93	33.62	25.157	281.8	0.493
175	14.02	33.69	25.192	278.5	0.576	175	12.93	33.66	25.390	259.6	0.561
200	12.75	33.72	25.472	251.8	0.644	200	11.76	33.70	25.646	235.3	0.624
225	11.40	33.69	25.705	229.7	0.705	225	10.53	33.77	25.922	209.0	0.681
250	10.38	33.85	26.011	200.6	0.760	250	10.29	33.98	26.127	189.5	0.732
275	9.98	33.99	26.188	183.8	0.810	275	9.71	34.01	26.249	178.0	0.779
300	9.60	34.04	26.291	174.0	0.856	300	9.46	34.04	26.314	171.9	0.825
350	8.88	34.05	26.415	162.2	0.943	350	8.56	34.05	26.465	157.5	0.910
400	7.89	34.01	26.535	150.9	1.025	400	7.78	34.02	26.559	148.6	0.990
450	6.97	33.97	26.634	141.4	1.101	450	6.92	33.98	26.649	140.0	1.065
500	6.16	33.97	26.741	131.3	1.173	500	6.11	33.96	26.740	131.4	1.137
550	5.58	33.99	26.829	122.9	1.240	550	5.37	33.98	26.847	121.3	1.203
600	5.19	34.04	26.915	114.8	1.302	600	4.91	34.01	26.924	114.0	1.265
650	4.76	34.08	26.996	107.1	1.361	650	4.62	34.06	26.996	107.1	1.323
700	4.54	34.14	27.068	100.3	1.417	700	4.38	34.10	27.054	101.7	1.379
750	4.42	34.20	27.129	94.5	1.469	750	4.16	34.16	27.125	94.9	1.431
800	4.42	34.26	27.176	90.0	1.519	800	4.02	34.22	27.187	89.0	1.481
850	4.25	34.31	27.234	84.6	1.566	850	3.85	34.25	27.228	85.1	1.528
900	3.93	34.32	27.275	80.6	1.612	900	3.72	34.29	27.273	80.9	1.573
950	3.71	34.34	27.313	77.0	1.655	950	3.50	34.30	27.302	78.1	1.616
1000	3.59	34.37	27.349	73.6	1.697	1000	3.52	34.35	27.340	74.5	1.658
1100	3.42	34.43	27.413	67.5	1.775	1100	3.30	34.38	27.385	70.2	1.739
1200	3.16	34.47	27.470	62.2	1.849	1200	3.16	34.42	27.430	66.0	1.815

RV THOMAS WASHINGTON

INDOPAC LEG XVI

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RV THOMAS WASHINGTON										INDOPAC LEG XVI						
LATITUDE		LONGITUDE		MO/DAY/YR		MESSENGER		TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES			
35 10.6N		139 58.0W		7/24/77		0221 0523		GMT	5457M	150	7KT	1	49 2			
Z	T	S	O2	P04	SI03	N02	N03	DT	Z	T	S	O2	SIGT	DT	DD	
1	21.56	33.901	5.31	0.11	4.3	0.01	0.0	437.1	0	21.56	33.901	5.31	23.527	437.1	0.000	
16	20.77	33.969	5.36	0.10	4.1	0.00	0.0	411.7	10	21.03	33.953	5.33	23.710	419.7	0.043	
21	20.61	33.973	5.39	0.09	4.2	0.00	0.0	407.4	20	20.65	33.975	5.38	23.829	408.3	0.084	
41	17.30	33.740	5.97	0.13	4.4	0.01	0.0	344.6	30	19.30	33.872	5.63	24.105	382.0	0.124	
71	15.01	33.706	6.15	0.16	4.7	0.01	0.0	297.4	50	16.38	33.715	6.02	24.693	326.0	0.195	
100	13.97	33.679	6.06	0.19	4.7	0.00	0.0	278.3	75	14.83	33.705	6.15	25.031	293.8	0.273	
125	13.21	33.643	5.93	0.28	5.2	0.12	0.3	266.2	100	13.97	33.679	6.06	25.194	278.3	0.345	
150	11.90	33.591	5.76	0.49	7.2	0.04	3.7	245.8	125	13.21	33.643	5.93	25.321	266.2	0.414	
175	11.36	33.754	5.51	0.65	9.7	0.01	7.0	224.3	150	11.90	33.591	5.76	25.536	245.8	0.479	
200	10.15	33.730	5.49	0.86	14.	0.01	10.6	205.8	200	10.15	33.730	5.49	25.957	205.8	0.593	
250	9.57	34.026	5.23	1.10	20.	0.00	15.5	174.6	250	9.57	34.026	5.23	26.285	174.6	0.691	
300	8.82	34.052	4.88	1.33	26.	0.00	19.0	161.2	300	8.82	34.052	4.88	26.426	161.2	0.777	
400	7.30	33.989	4.16	1.76	40.	0.00	25.1	144.4	400	7.30	33.989	4.16	26.603	144.4	0.936	
499	5.58	33.950	2.64	2.45	65.	0.00	34.8	125.9	500	5.57	33.952	2.63	26.800	125.7	1.077	
598	4.64	34.013	1.52	2.90	88.	0.00	40.8	110.9	600	4.63	34.016	1.51	26.959	110.6	1.201	
697	4.12	34.103	0.99	3.09	105.	0.00	43.0	98.8	700	4.11	34.108	0.97	27.087	98.5	1.312	
799	3.85	34.213	0.52	3.23	120.	0.00	45.3	87.9	800	3.85	34.215	0.52	27.200	87.8	1.412	
896	3.61	34.300	0.29	3.29	130.	0.00	46.1	79.1	1000	3.45	34.379	0.25	27.369	71.8	1.586	
963A	3.50	34.348	0.22	3.29	134.		46.2	74.5	1200	3.08	34.469	0.46	27.476	61.6	1.735	
996	3.46	34.375	0.25	3.33	136.	0.00	46.2	72.1	1500	2.56	34.545	0.93	27.583	51.5	1.930	
1211A	3.06	34.471	0.47	3.29	147.		46.4	61.2	1750	2.20	34.584	1.32	27.644	45.7	2.073	
1459A	2.63	34.537	0.86	3.20	160.		45.4	52.6	2000	1.94	34.612	1.65	27.687	41.6	2.203	
1706A	2.26	34.577	1.26	3.12	172.		44.2	46.6	2250	1.79	34.630	1.93	27.713	39.1	2.326	
1955A	1.97	34.606	1.60	3.03	181.		43.0	42.2	2500	1.68	34.643	2.21	27.731	37.4	2.444	
2203A	1.82	34.627	1.88	2.98	182.		42.1	39.5	2750	1.61	34.654	2.43	27.746	36.0	2.559	
2452A	1.70	34.640	2.16	2.91	184.		41.8	37.7	3000	1.55	34.663	2.67	27.757	35.0	2.671	
2699A	1.62	34.651	2.39	2.84	182.		41.2	36.3	3250	1.51	34.668	2.91	27.764	34.3	2.783	
2948A	1.56	34.661	2.61	2.78	182.		40.1	35.1	3500	1.48	34.676	3.09	27.772	33.5	2.894	
3196A	1.522	34.665	2.87	2.72	178.		39.8	34.5	3750	1.47	34.680	3.25	27.777	33.1	3.006	
3445A	1.489	34.674	3.04	2.68	177.		39.4	33.6	4000	1.47	34.681	3.33	27.778	33.0	3.117	
3692A	1.474	34.679	3.23	2.66	173.		38.8	33.2	4250	1.48	34.685	3.39	27.780	32.8	3.231	
3940A	1.47	34.680	3.31	2.63	173.		38.6	33.1	4500	1.51	34.687	3.46	27.780	32.8	3.346	
4188A	1.47	34.683	3.38	2.61	170.		38.4	32.8	4750	1.53	34.687	3.50	27.778	33.0	3.464	
4437A	1.511	34.687	3.44	2.58	165.		37.8	32.8	5000	1.56	34.688	3.57	27.777	33.1	3.584	
4684A	1.523	34.686	3.50	2.58	164.		37.8	33.0	5250	1.59	34.688	3.58	27.774	33.3	3.707	
4932A	1.553	34.688	3.53	2.58	164.		37.7	33.0								
5131A	1.571	34.687	3.63	2.57	164.		37.5	33.2								
5279A	1.593	34.687	3.57	2.56	162.		37.6	33.4								
5379A	1.606	34.688	3.57	2.57	161.		37.6	33.4								
5428A	1.62	34.687	3.58	2.57	162.		37.6	33.6								

RV THOMAS WASHINGTON

INDOPAC LEG XVI

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RV THOMAS WASHINGTON										INDOPAC LEG XVI						
LATITUDE		LONGITUDE		MO/DAY/YR		MESSENGER		TIME	BOTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES			
35 09.5N		139 01.1W		7/24/77		1108 GMT			5122M	200	7KT	1				
Z	T	S	O2	P04	SI03	N02	N03	DT	Z	T	S	O2	SIGT	DT	DD	
1	21.12	33.927	5.33					423.8	0	21.12	33.927	5.33	23.667	423.8	0.000	
11	20.61	33.884	5.38					413.8	10	20.66	33.888	5.37	23.761	414.8	0.042	
21	20.15	33.870	5.44					403.2	20	20.21	33.873	5.43	23.869	404.5	0.083	
41	17.54	33.767	5.90					348.1	30	19.06	33.823	5.64	24.128	379.8	0.122	
70	15.43	33.686	6.00					307.6	50	16.71	33.739	5.93	24.635	331.5	0.194	
99	14.57	33.618	5.95					294.8	75	15.25	33.678	6.00	24.919	304.4	0.274	
124	13.61	33.526	5.89					282.5	100	14.54	33.616	5.95	25.025	294.4	0.349	
149	11.92	33.441	5.69					257.2	125	13.55	33.522	5.88	25.159	281.6	0.422	
173	10.67	33.569	5.50					226.2	150	11.86	33.446	5.68	25.430	255.9	0.490	
198	10.10	33.710	5.35					206.4	200	10.06	33.725	5.34	25.967	204.8	0.607	
248	9.32	33.996	5.02					172.9	250	9.29	34.002	5.01	26.310	172.2	0.703	
297	8.69	34.049	4.78					159.5	300	8.64	34.049	4.76	26.451	158.2	0.789	
397	6.96	33.977	3.95					140.8	400	6.91	33.977	3.91	26.646	140.3	0.944	
496	5.55	33.956	2.53					125.1	500	5.51	33.958	2.49	26.812	124.6	1.082	
595	4.70	34.007	1.61					112.0	600	4.67	34.013	1.57	26.953	111.3	1.206	
695	4.17	34.118	0.85					98.2	700	4.16	34.126	0.82	27.097	97.6	1.317	
795	3.95	34.241	0.42					86.8	800	3.94	34.247	0.41	27.215	86.3	1.415	
893	3.712	34.314	0.27					79.0	1000	3.42	34.373	0.26	27.367	72.0	1.588	
994	3.43	34.368	0.26					72.3	1200	3.06	34.470	0.46	27.479	61.3	1.737	
1192	3.07	34.466	0.45					61.7								

26D

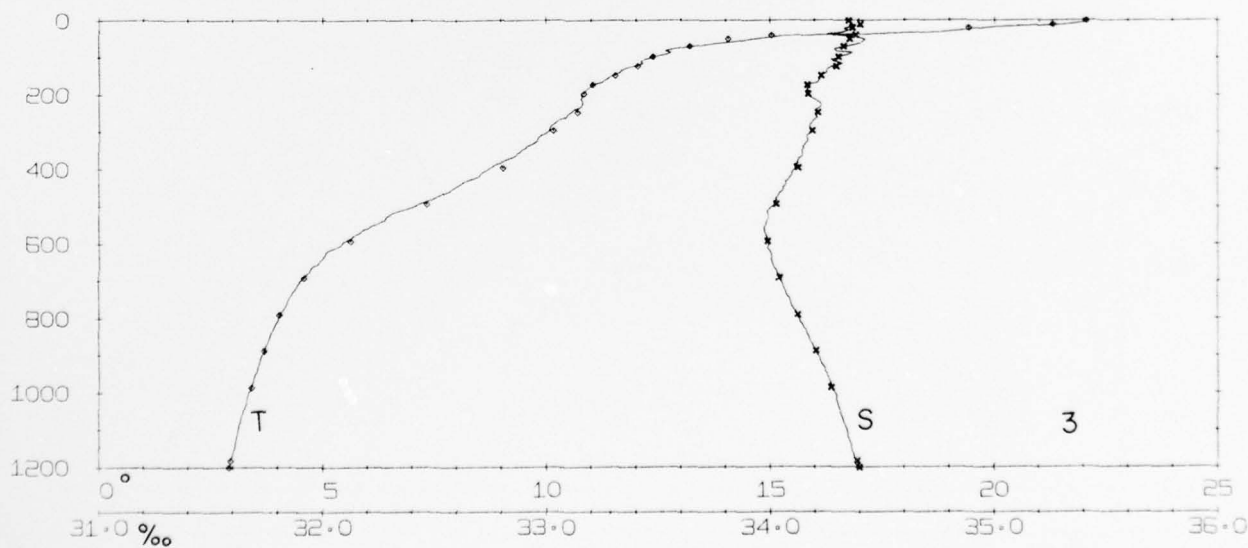
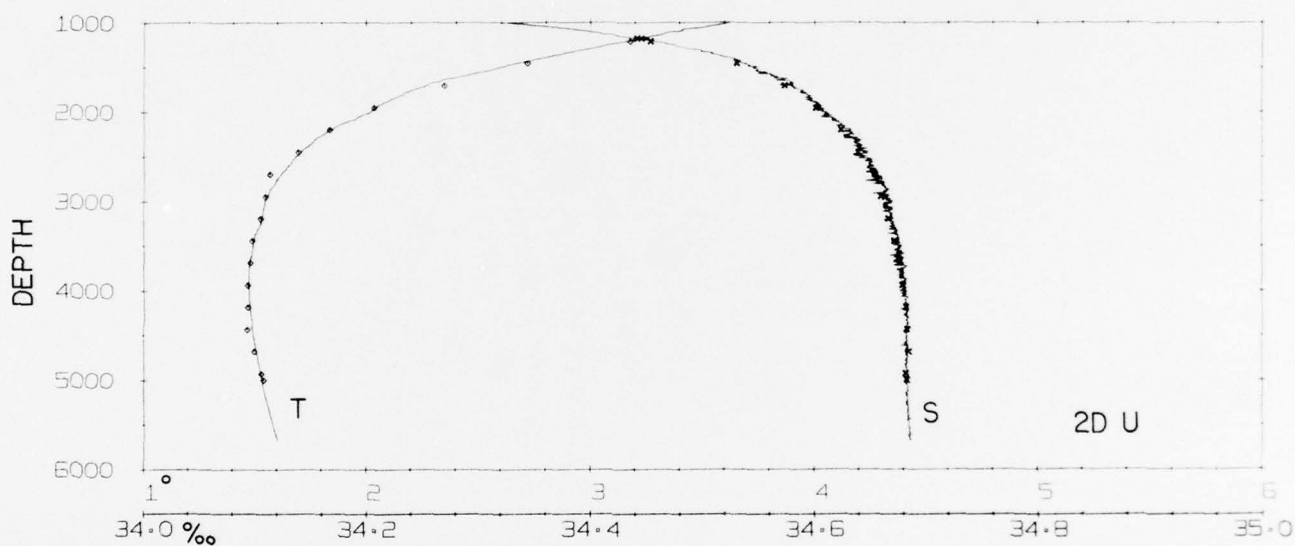
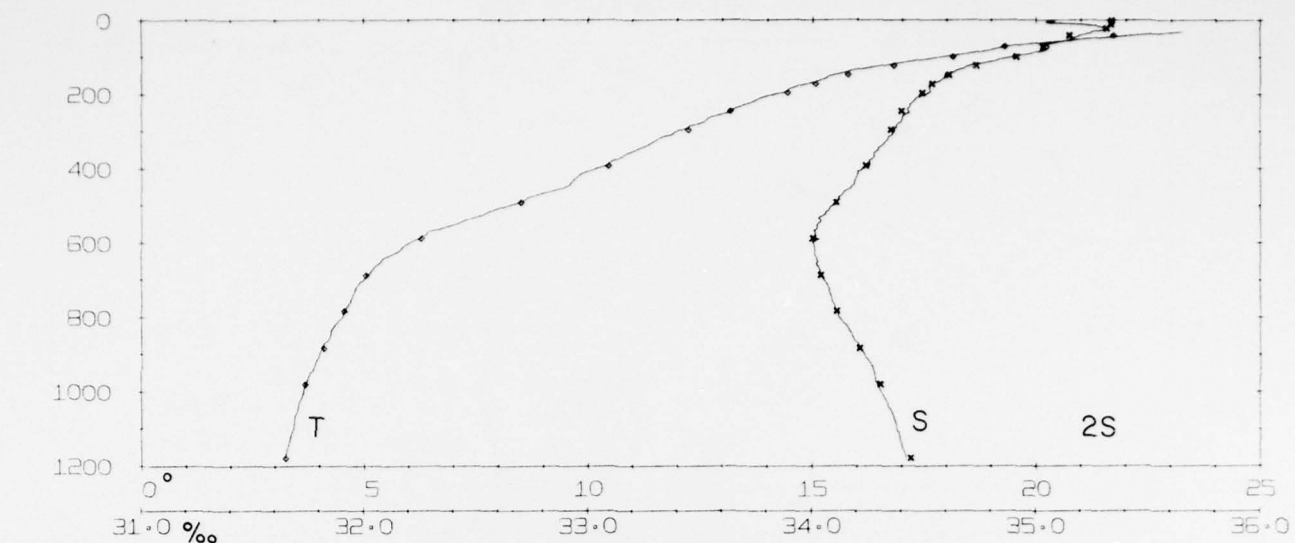
INDOPAC LEG XVI

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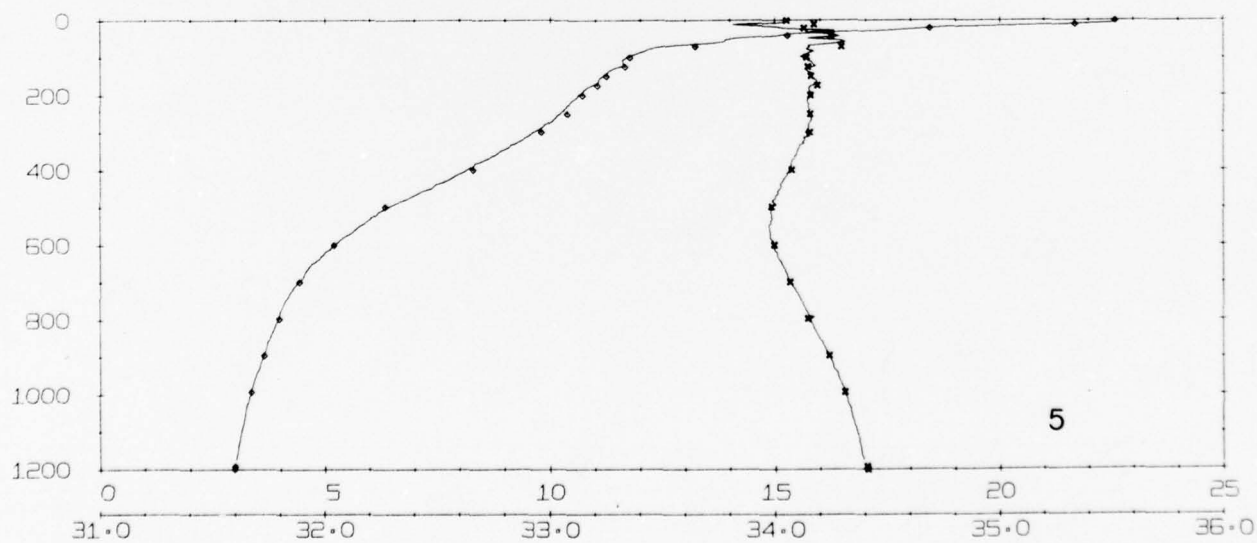
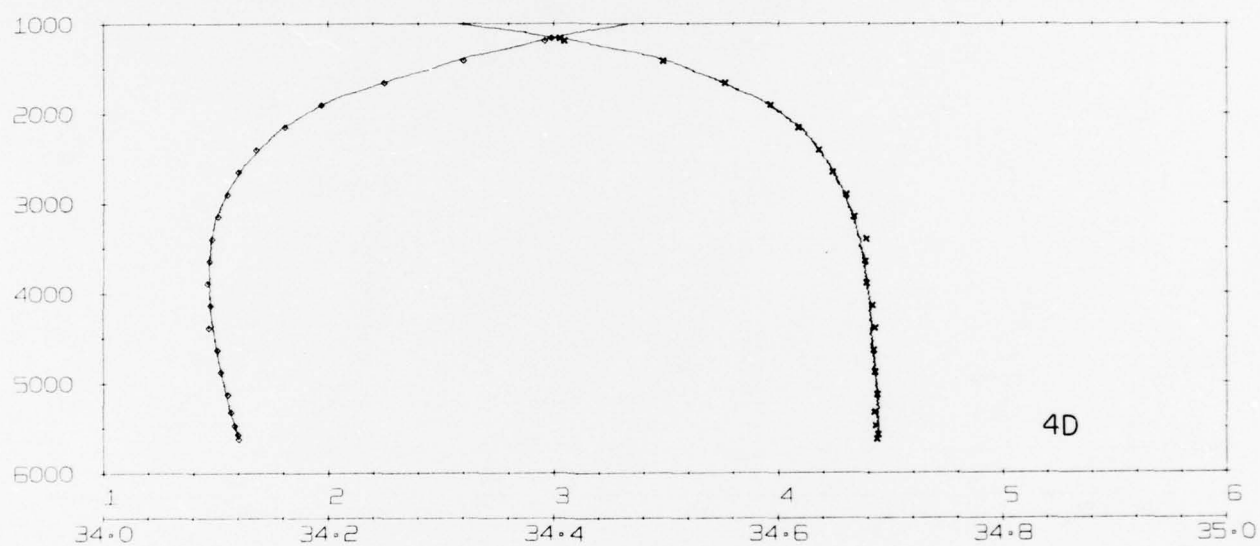
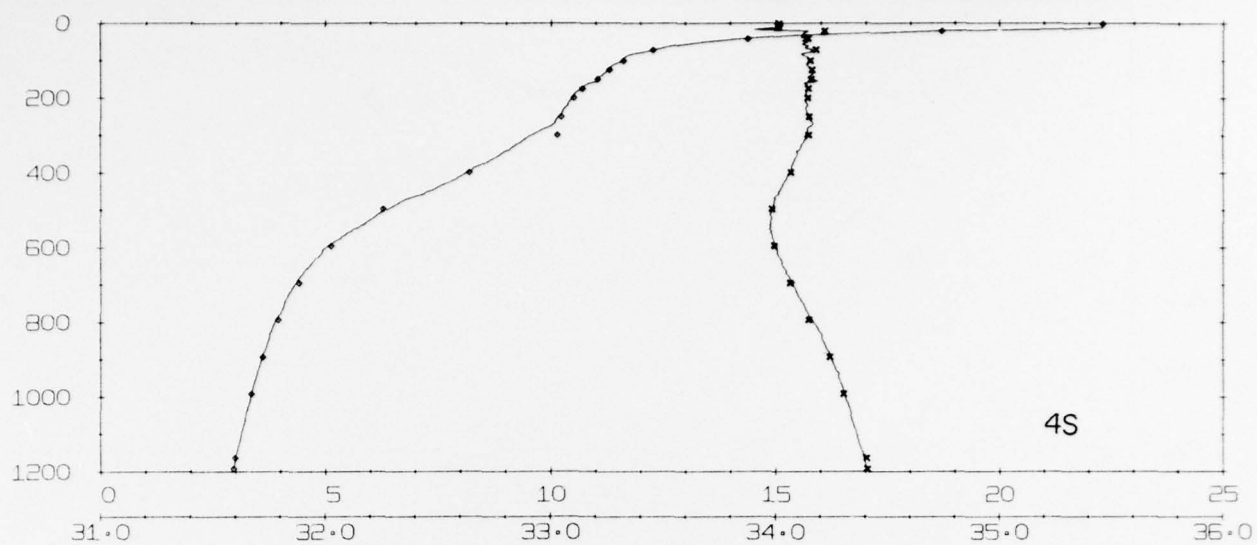
LATITUDE	LONGITUDE	MO/DAY/YR	START TIME				LATITUDE	LONGITUDE	MO/DAY/YR	START TIME			
35 10.5N	139 57.9W	07/24/77	0107 GMT				35 09.3N	139 00.5W	07/24/77	1032 GMT			
Z	T	S	SIGMA T	DT	DD		Z	T	S	SIGMA T	DT	DD	
0	21.17	33.96	23.678	422.7	0.000		0	21.15	33.93	23.661	424.3	0.000	
10	20.96	33.97	23.743	416.5	0.042		10	20.64	33.89	23.768	414.1	0.042	
20	20.55	33.99	23.868	404.6	0.083		20	20.25	33.88	23.864	405.0	0.083	
30	19.64	33.92	24.054	386.9	0.123		30	19.93	33.89	23.956	396.3	0.123	
40	17.87	33.78	24.241	354.7	0.160		40	18.10	33.71	24.282	365.2	0.161	
50	17.04	33.73	24.552	339.4	0.195		50	16.68	33.66	24.583	336.5	0.197	
75	15.19	33.82	25.042	292.8	0.274		75	15.41	33.70	24.901	306.1	0.277	
100	14.03	33.66	25.167	280.9	0.347		100	14.68	33.63	25.006	296.1	0.353	
125	12.80	33.52	25.308	267.5	0.416		125	13.66	33.46	25.089	288.3	0.427	
150	11.92	33.61	25.547	244.8	0.481		150	11.92	33.40	25.384	260.2	0.496	
175	11.30	33.75	25.770	223.5	0.540		175	10.70	33.56	25.730	227.4	0.558	
200	10.16	33.79	26.002	201.5	0.594		200	10.06	33.73	25.972	204.3	0.613	
225	9.74	33.92	26.174	185.1	0.644		225	9.73	33.91	26.166	185.7	0.663	
250	9.59	34.05	26.300	173.1	0.690		250	9.31	34.00	26.307	172.5	0.709	
275	9.27	34.07	26.368	166.7	0.733		275	9.08	34.04	26.375	166.0	0.753	
300	8.95	34.08	26.427	161.1	0.776		300	8.68	34.05	26.446	159.3	0.795	
350	8.16	34.04	26.518	152.5	0.857		350	7.71	34.02	26.569	147.6	0.874	
400	7.07	33.99	26.636	141.3	0.934		400	6.84	33.98	26.660	139.0	0.949	
450	6.20	33.96	26.728	132.5	1.005		450	6.02	33.95	26.743	131.1	1.019	
500	5.57	33.98	26.823	123.5	1.072		500	5.44	33.97	26.831	122.8	1.086	
550	5.08	34.00	26.897	116.6	1.135		550	4.96	33.99	26.902	116.0	1.148	
600	4.60	34.04	26.982	108.4	1.194		600	4.62	34.02	26.964	110.1	1.208	
650	4.28	34.08	27.048	102.2	1.250		650	4.33	34.07	27.035	103.4	1.264	
700	4.13	34.14	27.112	96.1	1.303		700	4.12	34.14	27.113	96.0	1.317	
750	3.98	34.19	27.167	90.9	1.353		750	3.96	34.20	27.177	90.0	1.367	
800	3.84	34.24	27.221	85.8	1.400		800	3.92	34.25	27.221	85.8	1.414	
850	3.70	34.29	27.275	80.7	1.445		850	3.77	34.28	27.260	82.1	1.459	
900	3.63	34.33	27.313	77.0	1.488		900	3.67	34.32	27.301	78.2	1.503	
950	3.50	34.36	27.350	73.6	1.529		950	3.54	34.34	27.330	75.4	1.545	
1000	3.44	34.39	27.380	70.7	1.569		1000	3.40	34.37	27.368	71.9	1.586	
1100	3.25	34.44	27.438	65.3	1.645		1100	3.21	34.42	27.425	66.4	1.663	
1200	3.08	34.48	27.485	60.7	1.716								
1300	2.92	34.51	27.524	57.1	1.784								
1400	2.74	34.53	27.556	54.0	1.848								
1500	2.56	34.55	27.587	51.1	1.909								
1600	2.409	34.570	27.616	48.3	1.967								
1700	2.264	34.585	27.640	46.1	2.023								
1800	2.137	34.598	27.661	44.1	2.076								
1900	2.025	34.607	27.677	42.6	2.128								
2000	1.935	34.617	27.692	41.1	2.179								
2100	1.876	34.625	27.703	40.1	2.228								
2200	1.821	34.631	27.712	39.2	2.276								
2300	1.766	34.638	27.722	38.3	2.324								
2400	1.723	34.643	27.729	37.6	2.371								
2500	1.687	34.646	27.734	37.1	2.417								
2600	1.655	34.651	27.741	36.5	2.463								
2700	1.619	34.657	27.748	35.8	2.508								
2800	1.597	34.659	27.751	35.5	2.554								
2900	1.569	34.661	27.755	35.2	2.598								
3000	1.553	34.664	27.758	34.8	2.643								
3100	1.533	34.667	27.762	34.5	2.688								
3200	1.519	34.669	27.765	34.2	2.732								
3300	1.502	34.673	27.769	33.8	2.777								
3400	1.493	34.674	27.771	33.7	2.821								
3500	1.484	34.676	27.773	33.5	2.865								
3600	1.480	34.677	27.774	33.3	2.909								
3700	1.478	34.680	27.777	33.1	2.954								
3800	1.474	34.679	27.776	33.2	2.998								
3900	1.474	34.681	27.778	33.0	3.043								
4000	1.478	34.682	27.778	32.9	3.088								
4100	1.480	34.682	27.778	33.0	3.133								
4200	1.486	34.684	27.779	32.9	3.179								
4300	1.493	34.685	27.780	32.8	3.224								
4400	1.498	34.684	27.779	32.9	3.270								
4500	1.506	34.684	27.778	33.0	3.317								
4600	1.515	34.686	27.779	32.9	3.364								
4700	1.525	34.686	27.778	33.0	3.411								
4800	1.536	34.686	27.777	33.0	3.459								
4900	1.546	34.687	27.778	33.0	3.507								
5000	1.557	34.686	27.776	33.2	3.555								
5100	1.567	34.686	27.775	33.3	3.604								
5200	1.579	34.687	27.775	33.3	3.653								
5300	1.592	34.687	27.774	33.4	3.703								
5400	1.603	34.686	27.772	33.5	3.753								

LATITUDE		LONGITUDE		MO/DAY/YR		MESSENGER		TIME	ROTTOM	WIND	SPEED	WEATHER	DOMINANT WAVES		
33 20.7N		124 15.8W		7/27/77		0925 1150		GMT	4668M	350	21KT	0	350 8 6		
Z	T	S	O2	PO4	SI03	N02	N03	DT	Z	T	S	O2	SIGT	DT	DD
1	16.24	32.828	5.85	0.37	2.2	0.00	0.0	387.6	0	16.24	32.828	5.85	24.047	387.6	0.000
11	16.20	32.8	5.86	0.36	2.2	0.00	0.0	386.9	10	16.20	32.829	5.86	24.054	386.9	0.039
16	15.64	32.806	5.94	0.36	2.1	0.01	0.0	376.4	20	15.64	32.800	5.99	24.224	370.7	0.077
31	14.81	32.811	6.09	0.37	2.1	0.01	0.0	358.8	30	14.84	32.810	6.08	24.340	359.6	0.113
56	14.03	33.056	6.28	0.36	2.9	0.01	0.1	325.2	50	14.22	32.999	6.25	24.617	333.3	0.183
71	13.16	33.075	6.30	0.39	3.2	0.02	0.0	307.0	75	12.92	33.093	6.27	24.952	301.3	0.262
86	12.17	33.121	6.10	0.52	4.9	0.07	1.4	285.3	100	10.89	33.096	5.75	25.334	265.0	0.334
99	10.96	33.090	5.78	0.77	7.6	0.13	5.6	266.4	125	9.76	33.272	5.09	25.666	233.4	0.397
129	9.76	33.272	5.09	1.17	14.1	0.06	12.8	233.4	150	9.44	33.500	4.51	25.896	211.5	0.453
150	9.44	33.500	4.51	1.40	19.	0.04	17.1	211.5	200	8.75	33.886	3.24	26.310	172.2	0.551
175	9.03	33.741	3.74	1.70	26.	0.02	22.6	167.4	250	7.95	33.991	2.86	26.513	152.9	0.634
210	8.61	33.922	3.10	1.94	32.	0.01	26.0	167.7	300	7.16	34.021	2.45	26.647	140.2	0.709
276	7.48	34.000	2.77	2.15	44.	0.01	29.4	146.0	400	6.17	34.100	1.16	26.841	121.8	0.845
370	6.41	34.071	1.44	2.71	64.	0.01	36.6	126.8	500	5.59	34.191	0.56	26.987	108.0	0.966
470	5.74	34.165	0.69	3.04	79.	0.01	38.8	111.7	600	5.15	34.267	0.32	27.099	97.3	1.075
610	5.11	34.273	0.31	3.23	97.	0.00	42.6	96.4	700	4.74	34.331	0.28	27.197	88.1	1.175
748	4.56	34.357	0.27	3.29	110.	0.00	43.8	84.2	800	4.41	34.385	0.30	27.275	80.6	1.267
896	4.16	34.426	0.39	3.29	120.	0.00	44.4	74.9	1000	3.85	34.461	0.52	27.395	69.3	1.434
1047	3.71	34.473	0.59	3.26	130.	0.00	44.4	67.0	1200	3.36	34.510	0.80	27.483	61.0	1.582
1195	3.37	34.508	0.79	3.23	139.	0.00	44.4	61.2	1500	2.69	34.560	1.10	27.584	51.4	1.777
1338A	3.00	34.546	0.97	3.18	145.		44.1	55.1	1750	2.37	34.586	1.39	27.631	46.9	1.923
1511A	2.67	34.560	1.11	3.14	157.		43.6	51.2	2000	2.06	34.617	1.79	27.681	42.2	2.057
1685A	2.46	34.576	1.28	3.12	162.		43.6	48.3	2250	1.90	34.635	2.06	27.708	39.6	2.183
1859A	2.23	34.600	1.58	3.02	168.		42.7	44.7	2500	1.76	34.648	2.27	27.729	37.6	2.303
2042A	2.02	34.620	1.85	2.98	172.		42.2	41.5	2750	1.68	34.657	2.48	27.743	36.3	2.419
2207A	1.93	34.632	2.02	2.92	173.		41.6	40.0	3000	1.60	34.666	2.64	27.756	35.1	2.534
2406A	1.80	34.642	2.18	2.88	177.		41.0	38.5	3250	1.54	34.671	2.84	27.765	34.3	2.646
2603A	1.73	34.653	2.37	2.84	177.		40.6	36.9	3500	1.50	34.680	3.03	27.774	33.3	2.757
2802A	1.66	34.657	2.52	2.80	177.		40.3	36.1	3750	1.47	34.683	3.20	27.779	32.9	2.868
3001A	1.60	34.665	2.64	2.76	178.		40.0	35.1	4000	1.49	34.687	3.26	27.781	32.7	2.980
3200A	1.55	34.669	2.80	2.75	181.		39.8	34.4	4250	1.52	34.687	3.32	27.779	32.9	3.093
3399A	1.512	34.675	2.780	2.70	179.		38.8	33.7	4500	1.53	34.690	3.37	27.780	32.8	3.209
3597A	1.49	34.683	3.10	2.67	176.		38.6	33.0							
3796A	1.47	34.682	3.22	2.65	173.		38.6	32.9							
3995A	1.489	34.686	3.26	2.62	172.		38.2	32.7							
4193A	1.511	34.685	3.30	2.62	171.		38.0	32.9							
4392A	1.529	34.689	3.37	2.60	169.		38.0	32.8							
4490A	1.530	34.689	3.36	2.60	168.		37.8	32.8							
4590A	1.54	34.688	3.45	2.60	168.		38.0	32.9							
4640A	1.56	34.689	3.42	2.58	168.		38.0	33.0							

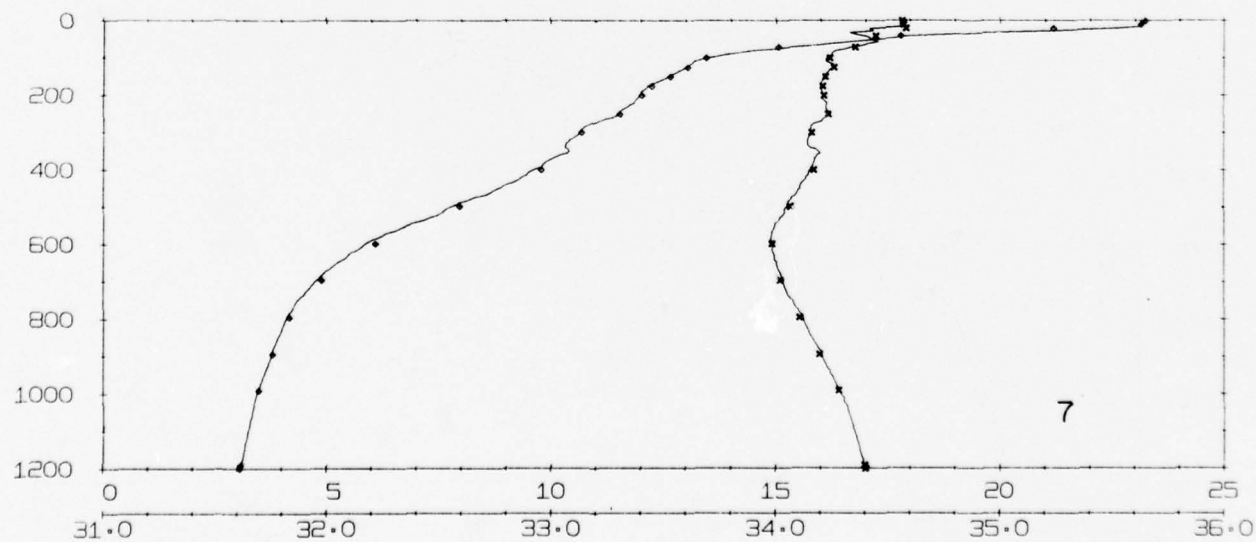
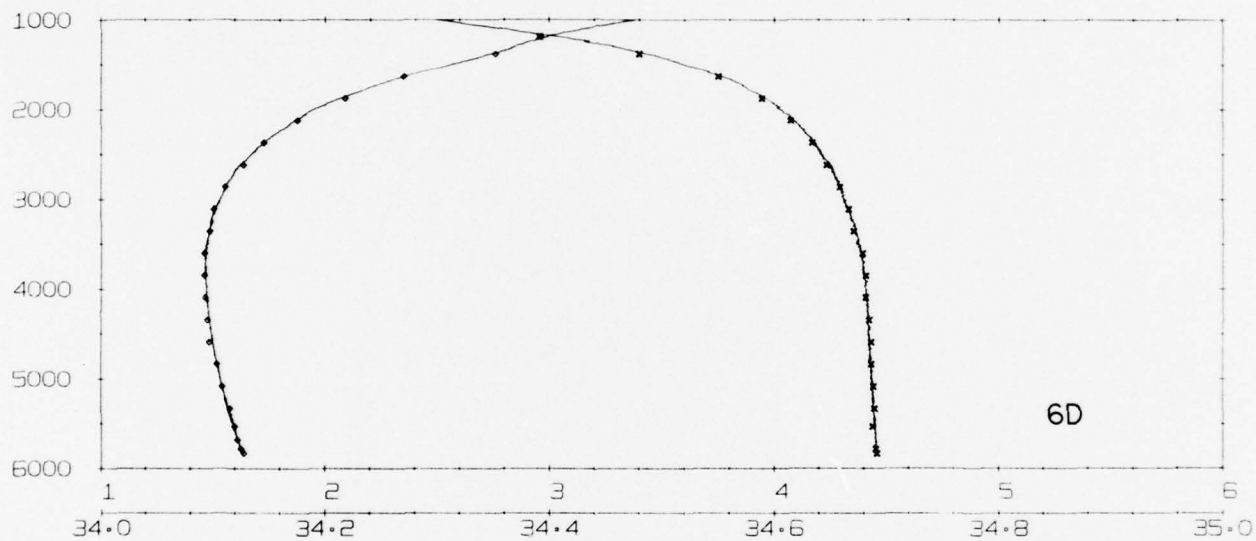
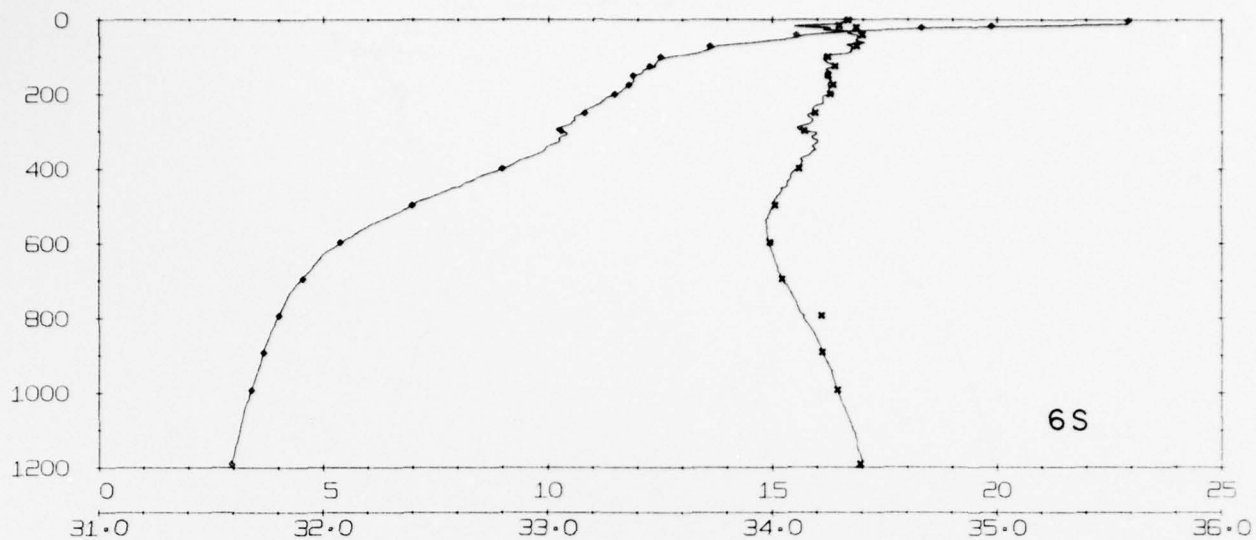
INDOPAC LEG XVI



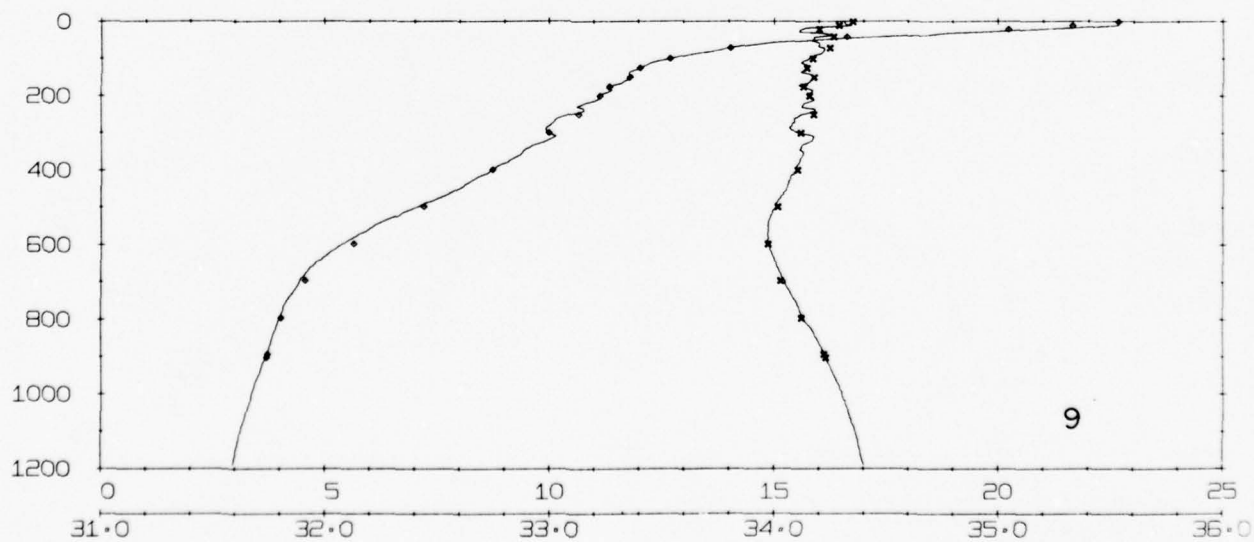
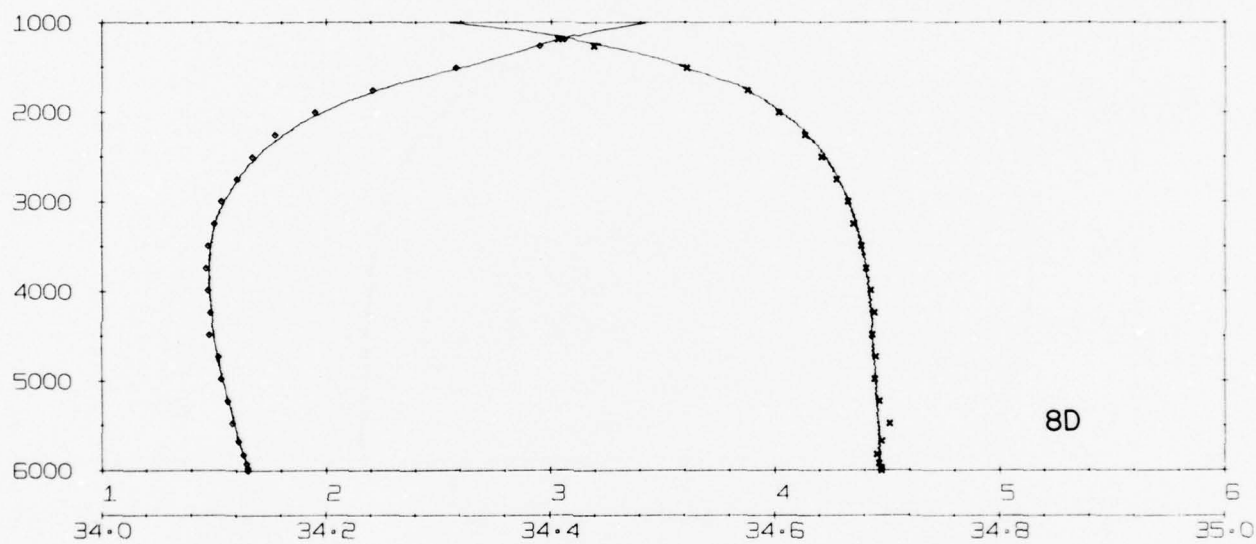
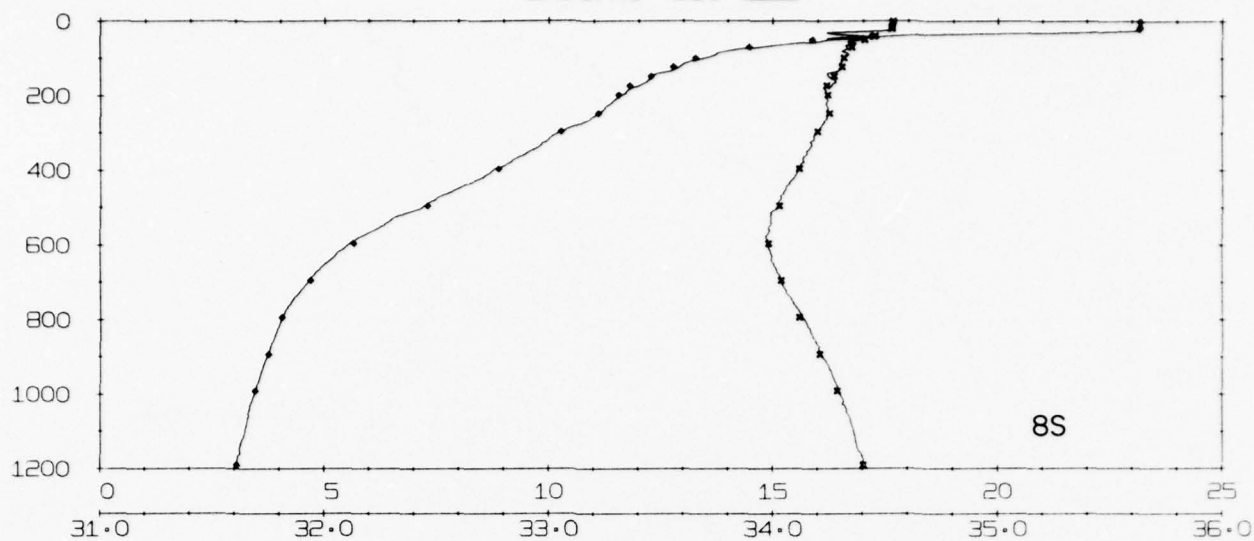
INDOPAC LEG XVI



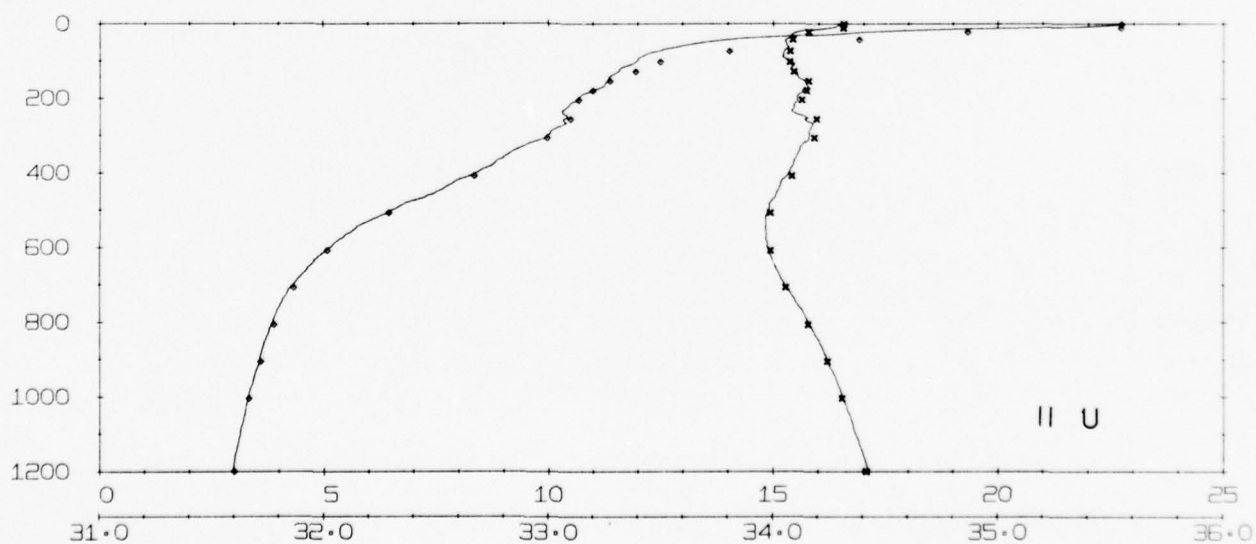
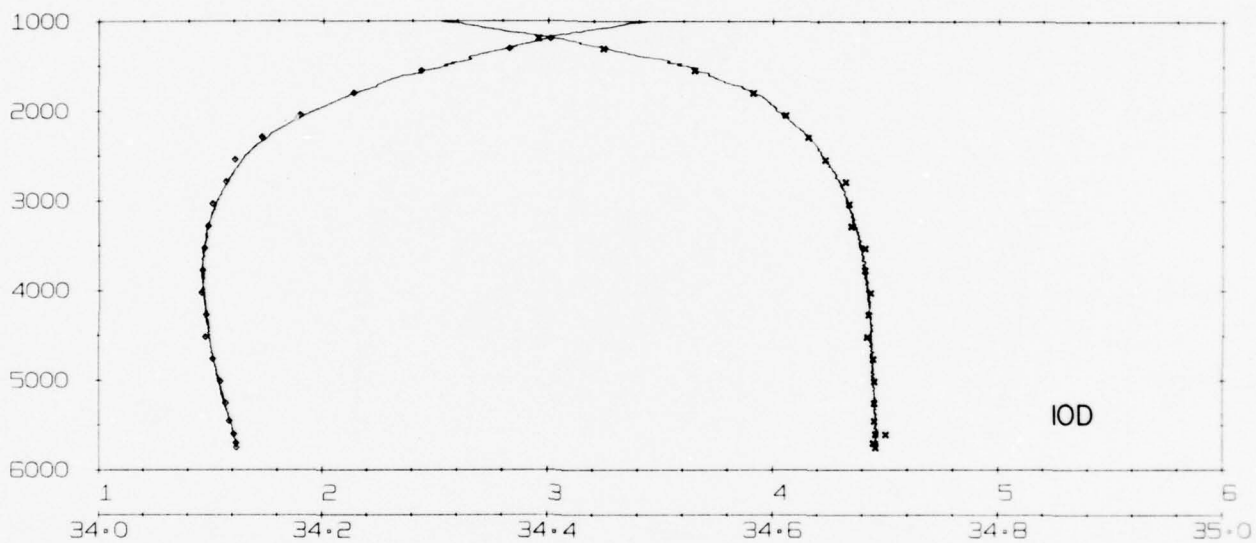
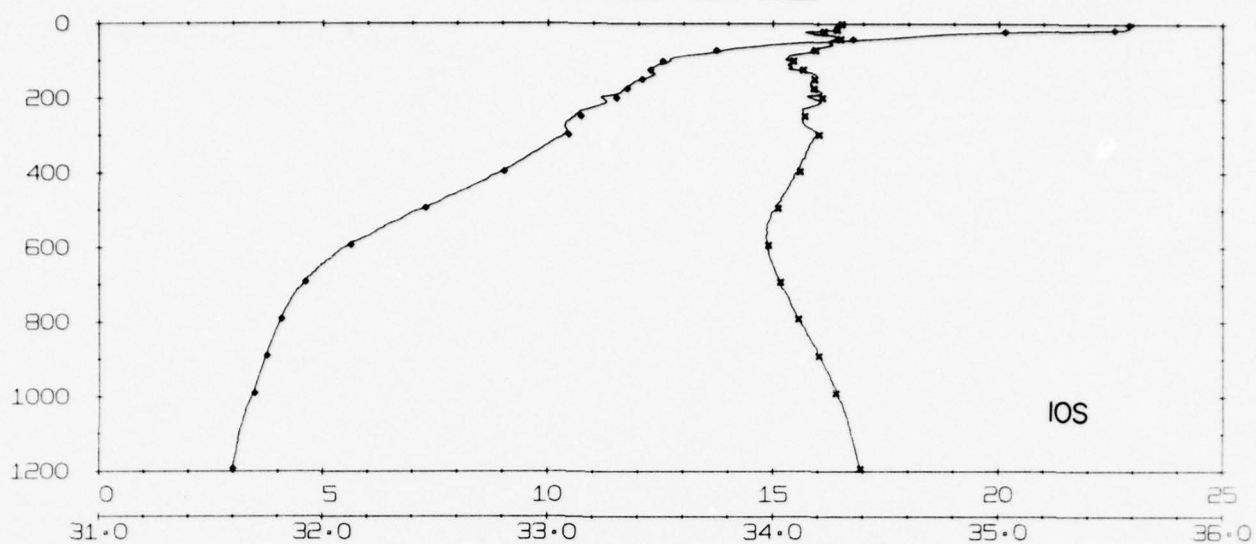
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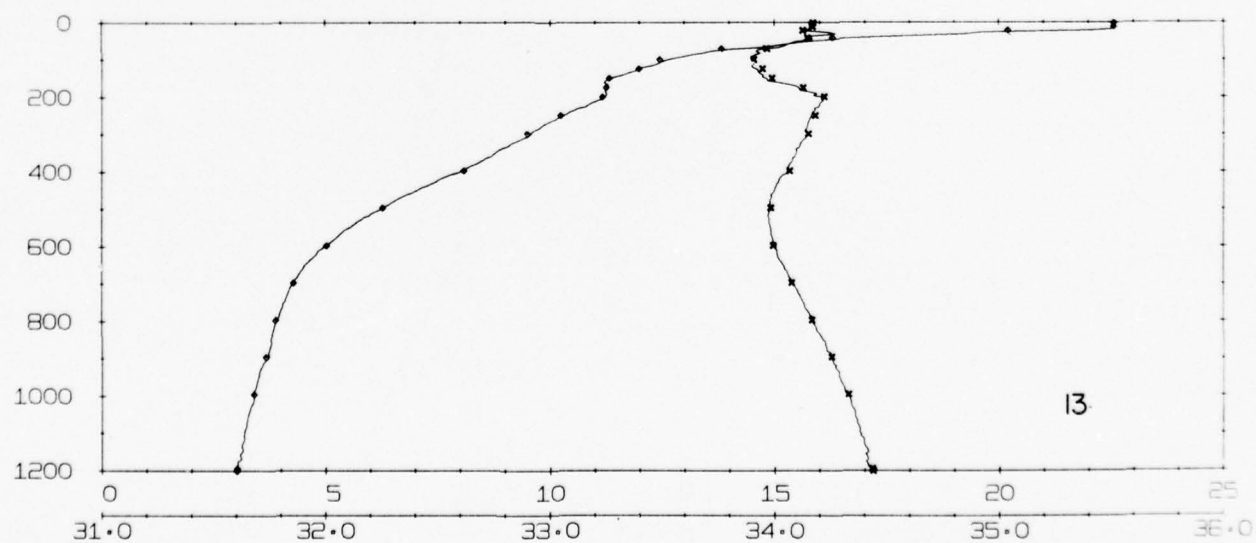
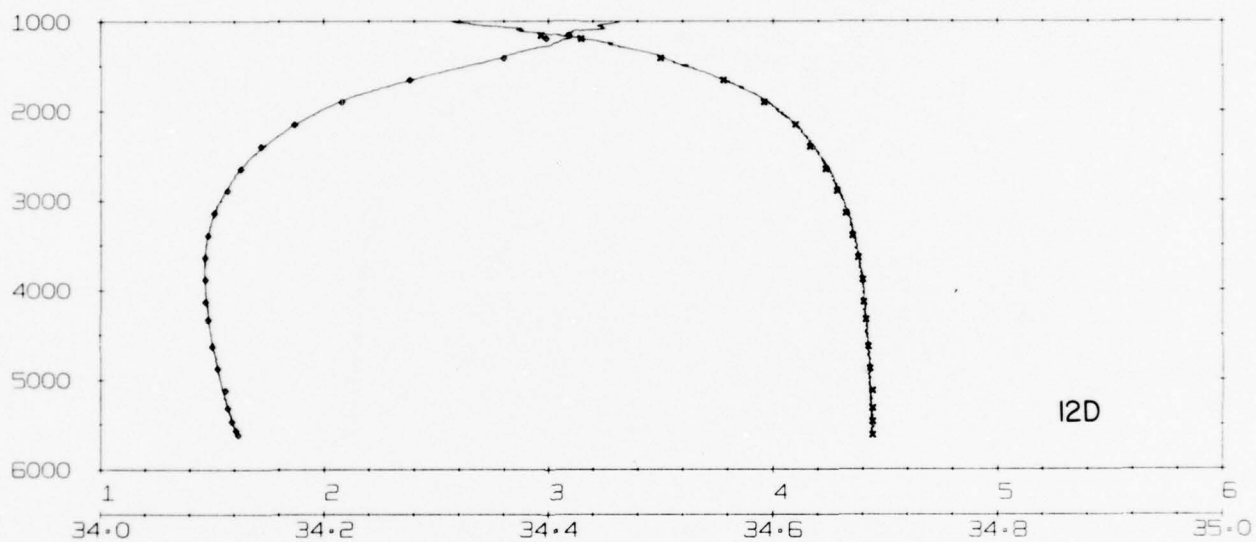
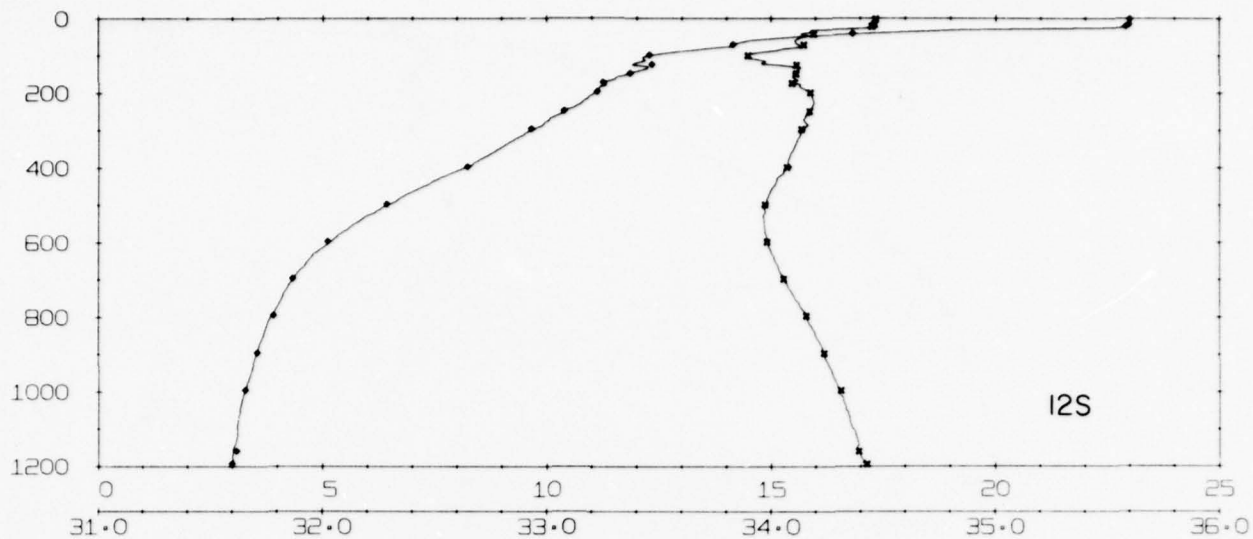
INDOPAC LEG XVI



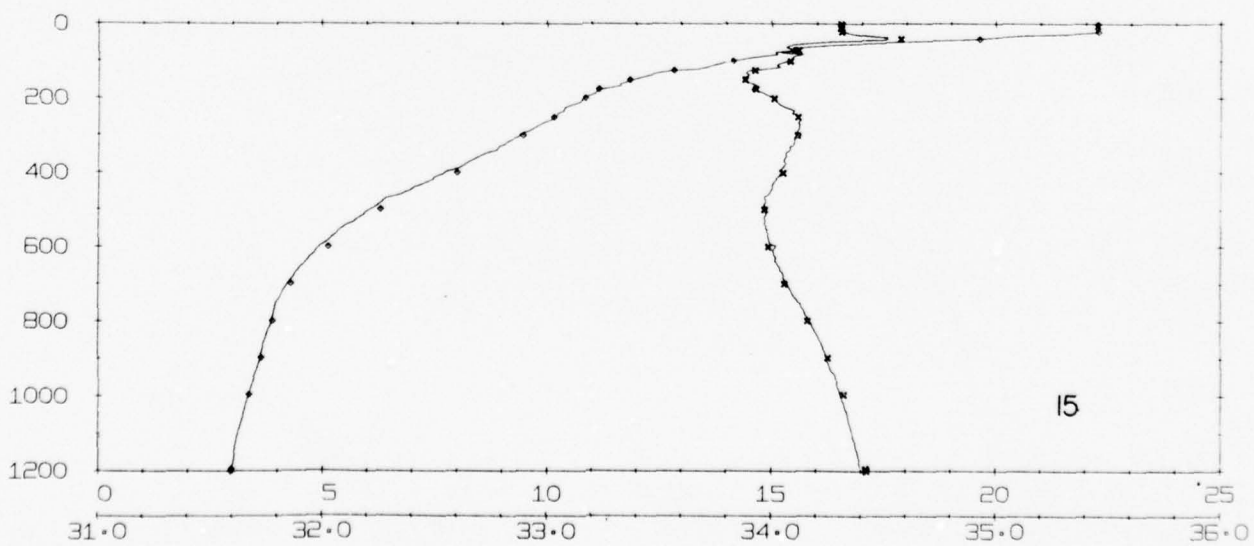
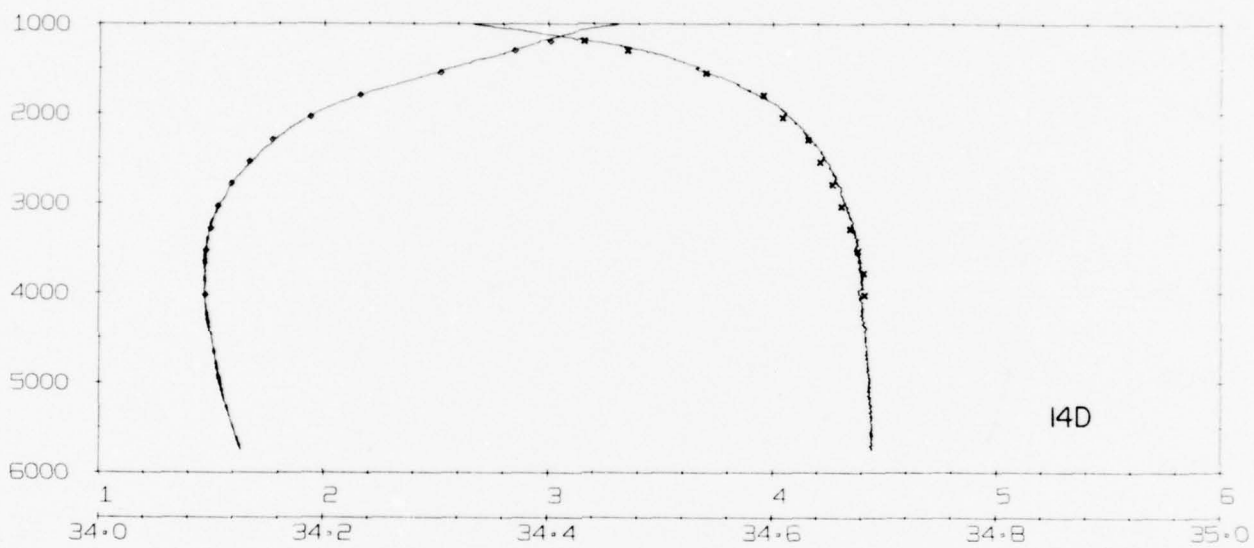
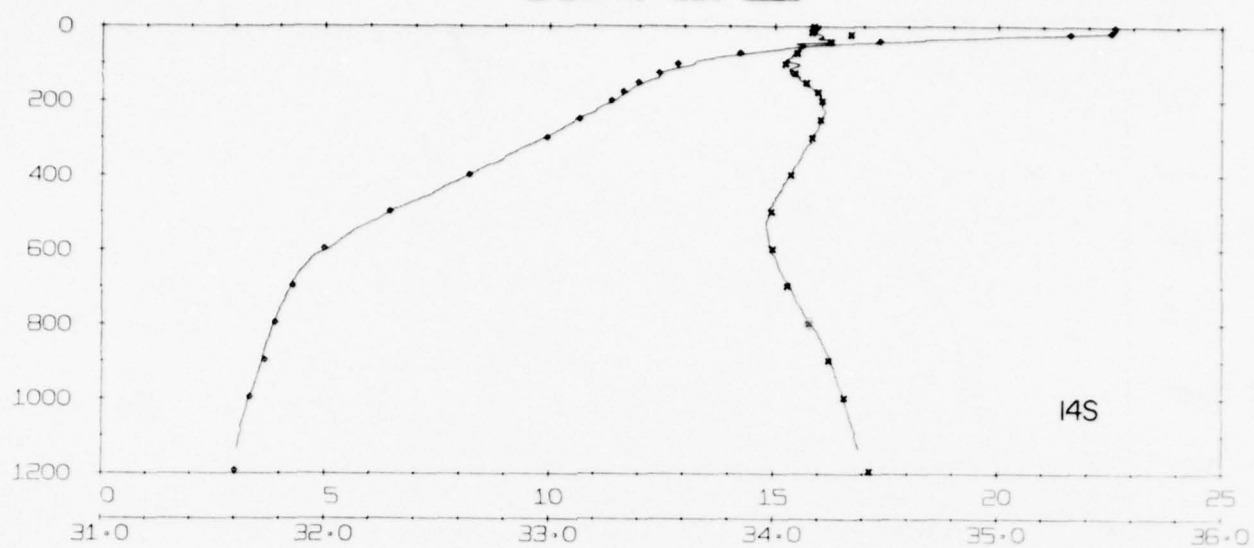
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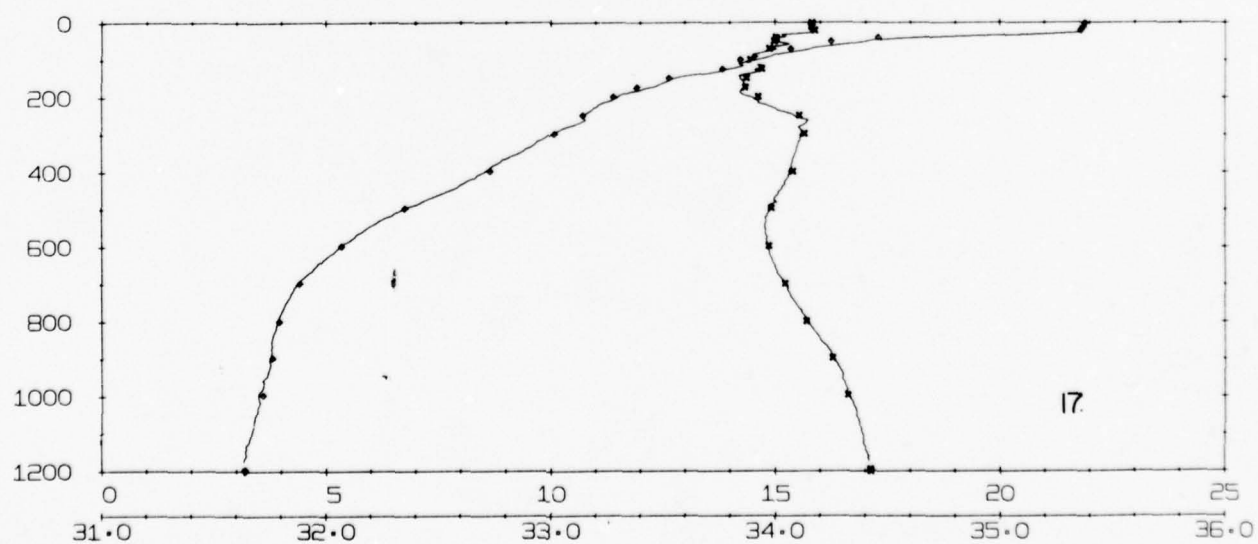
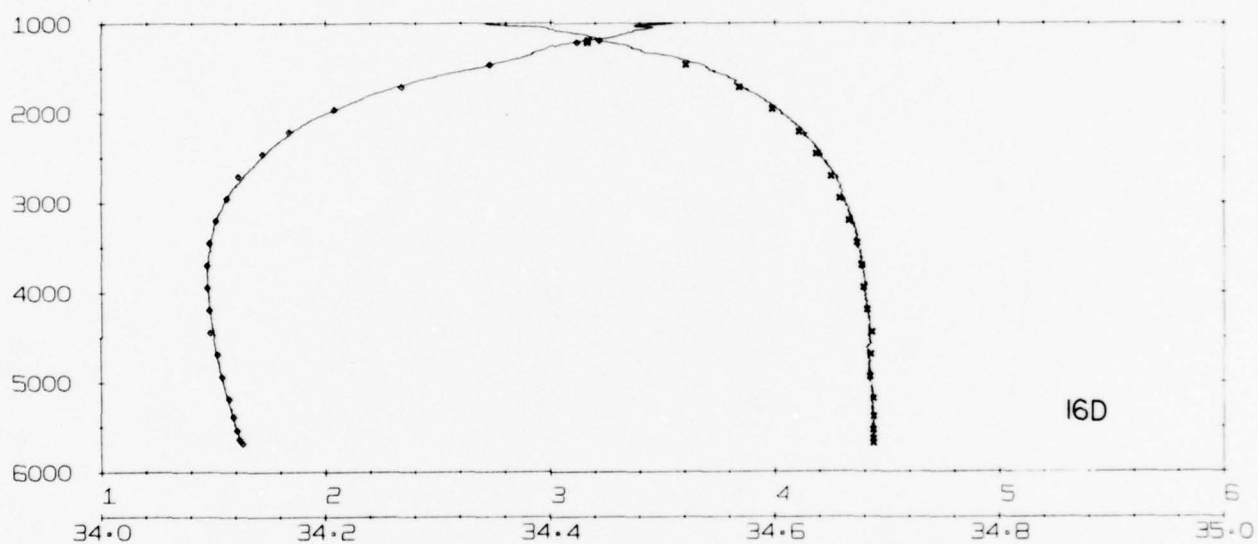
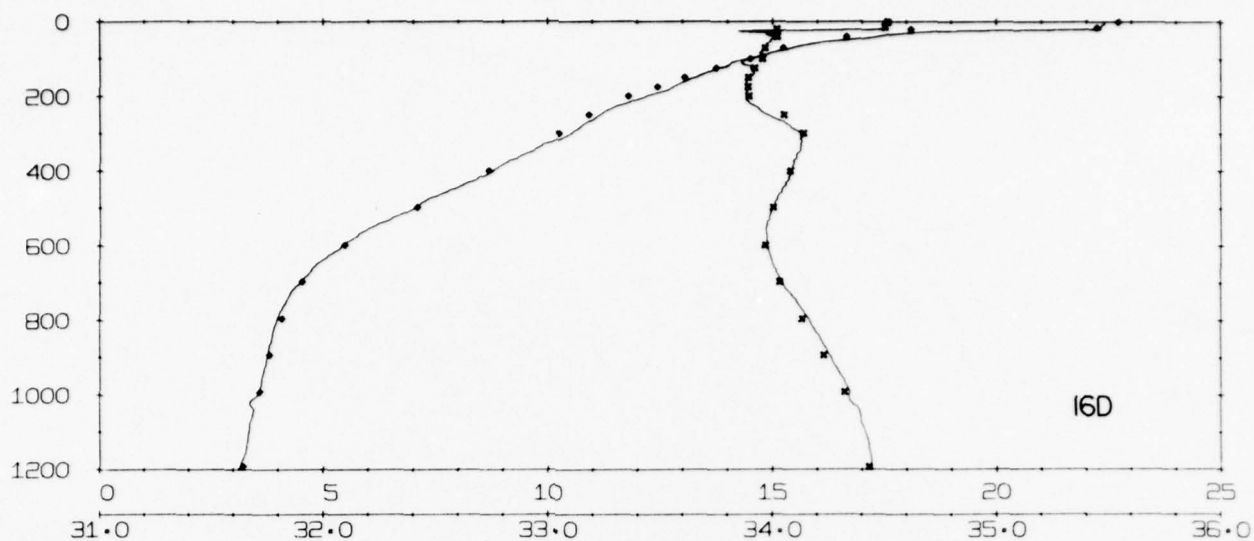
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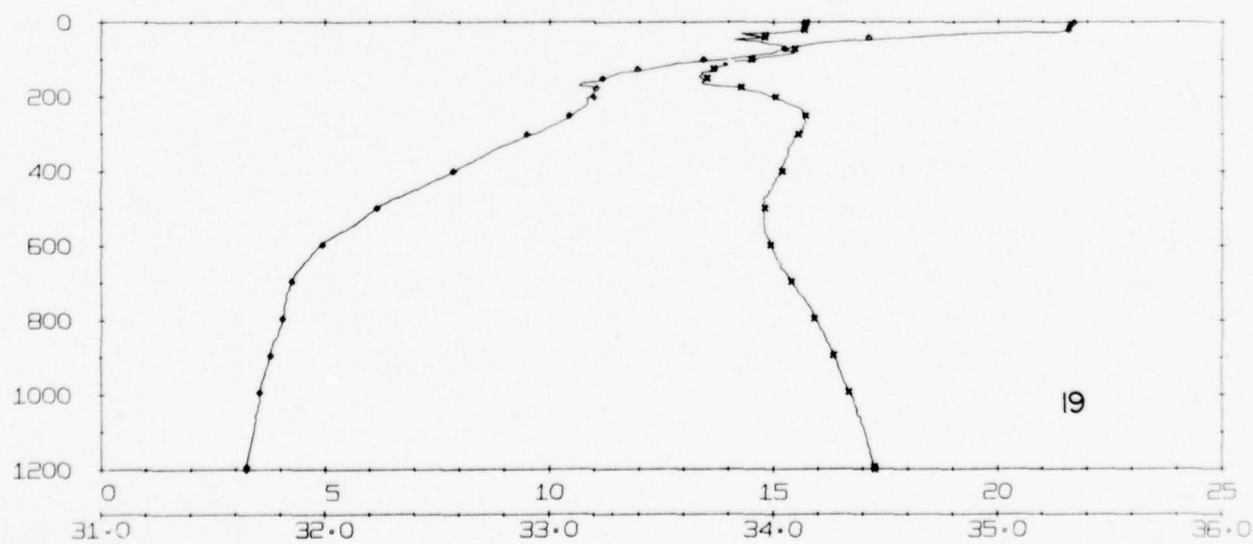
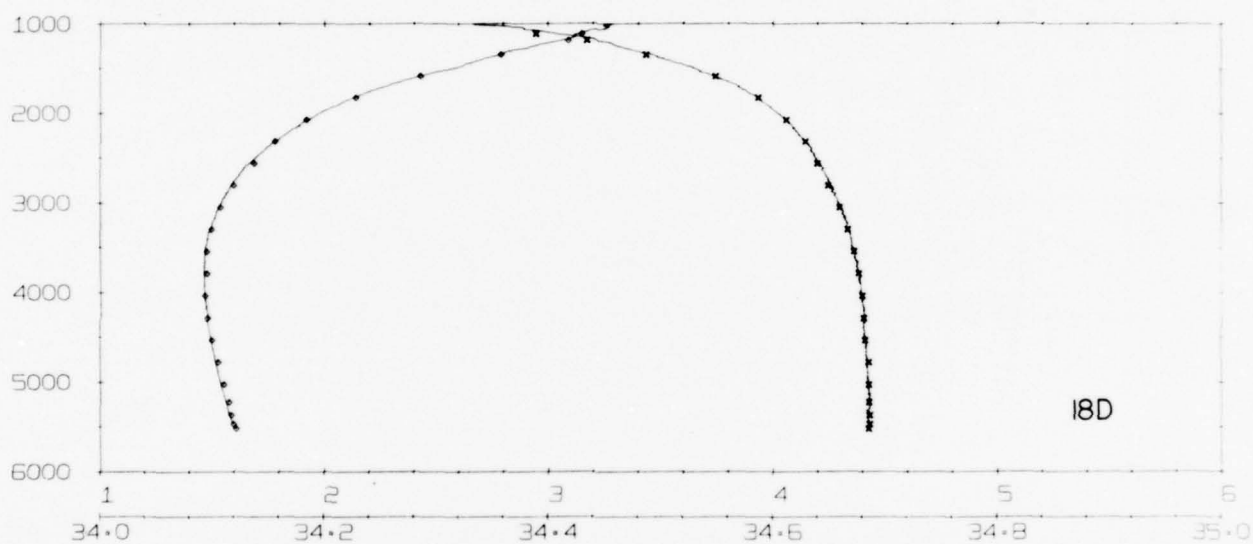
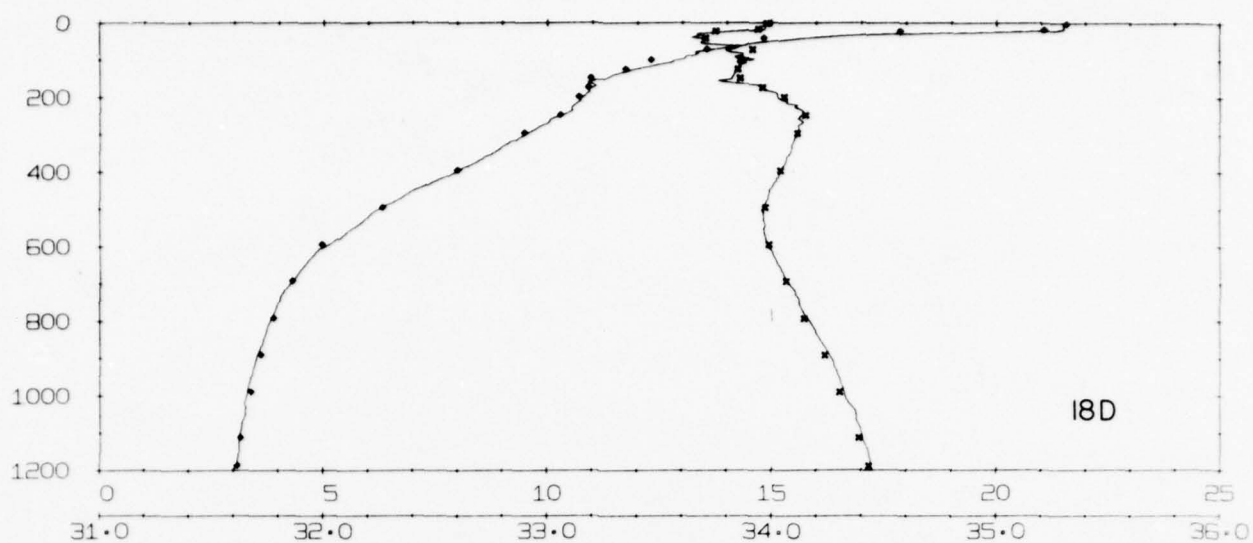
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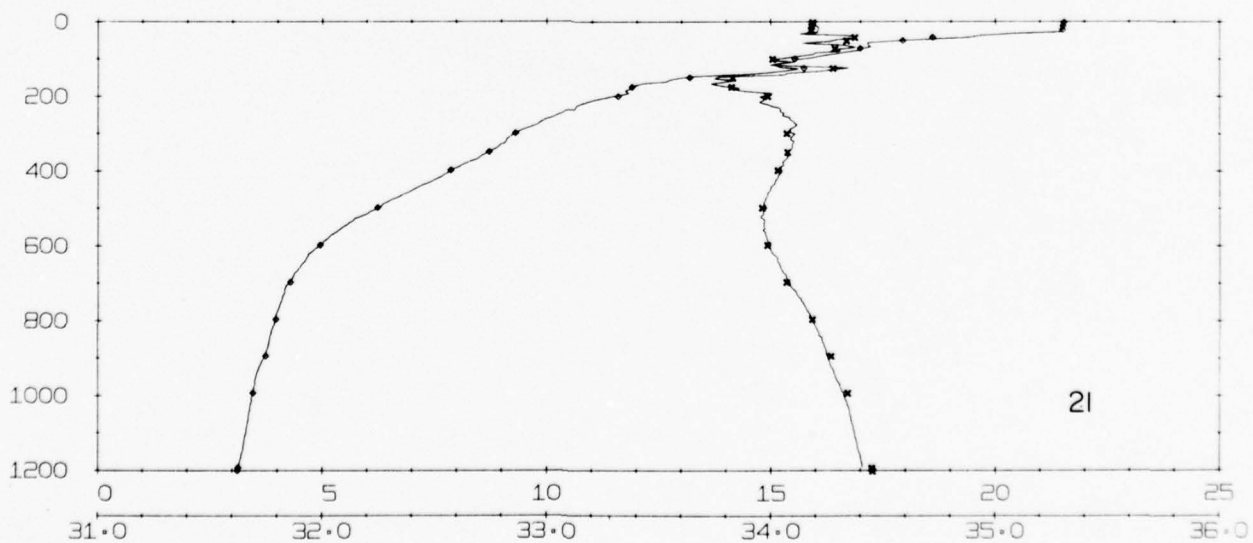
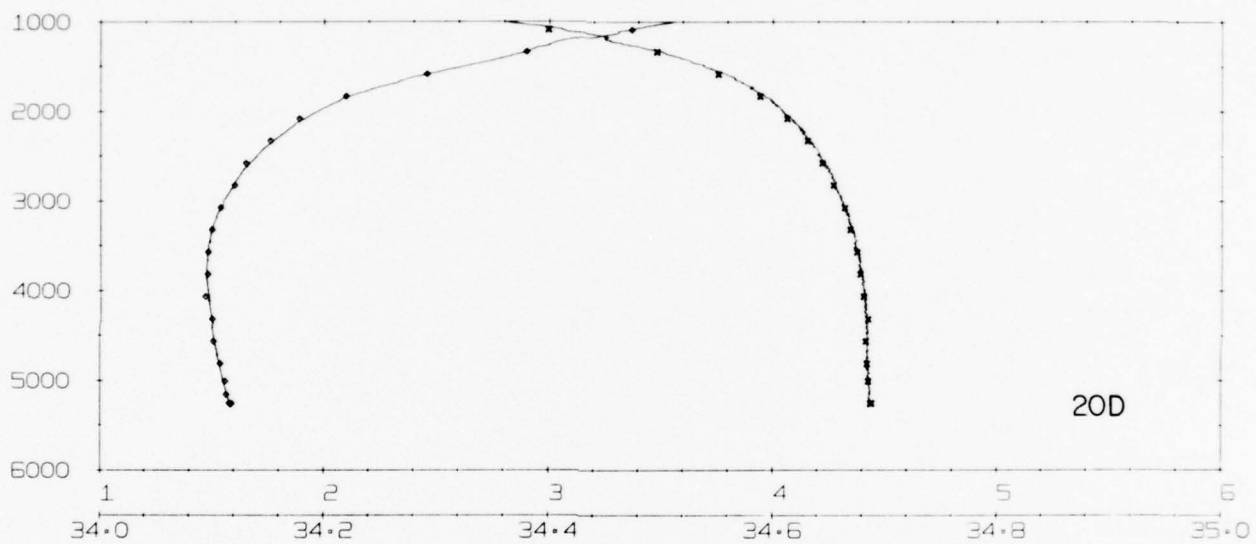
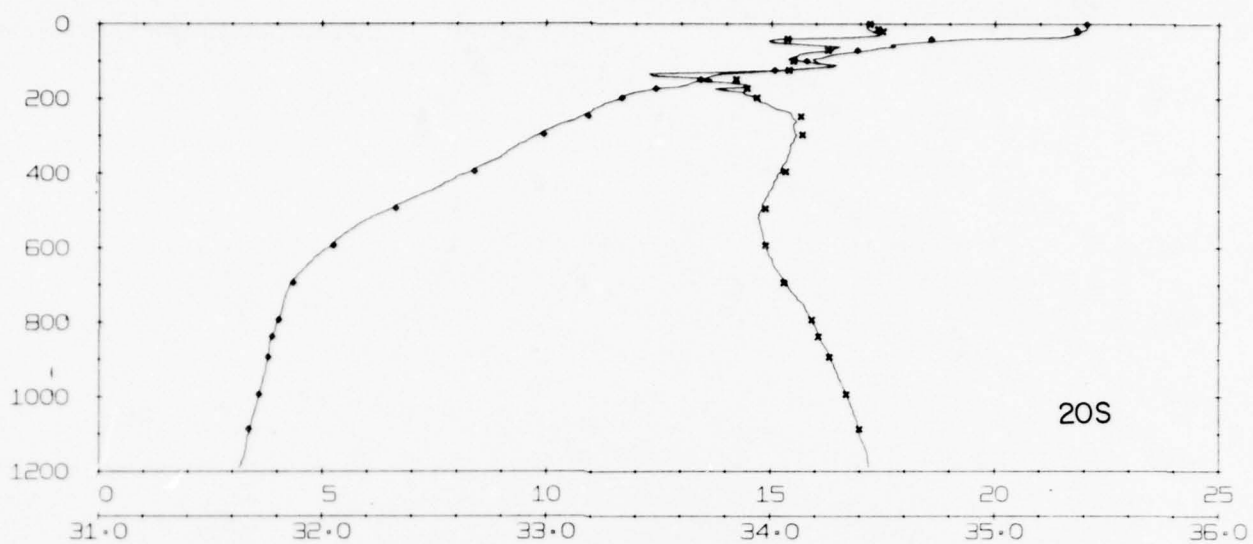
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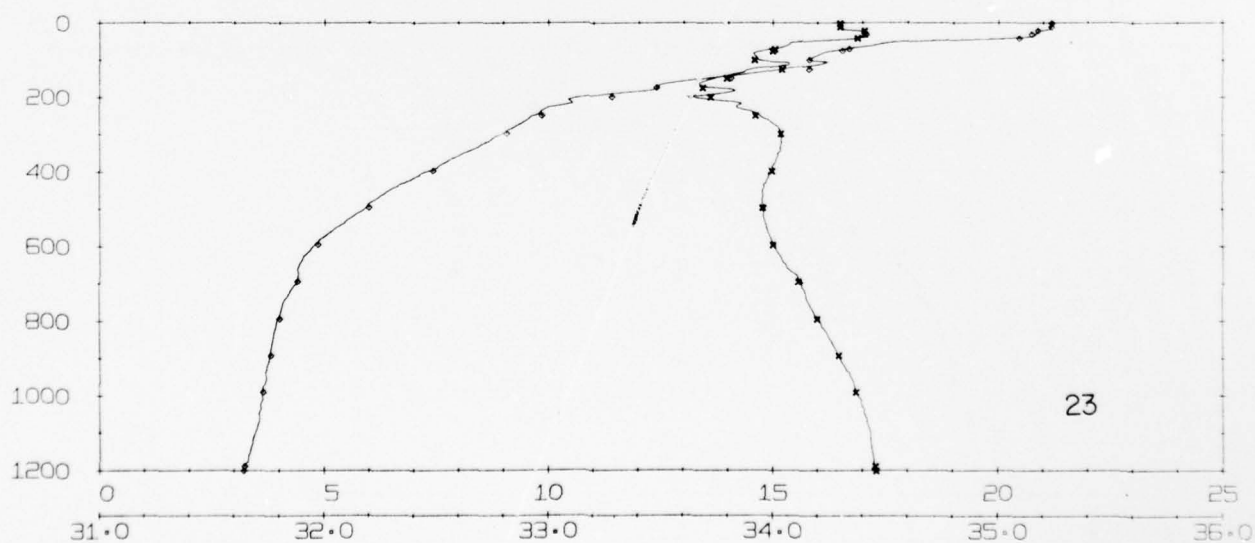
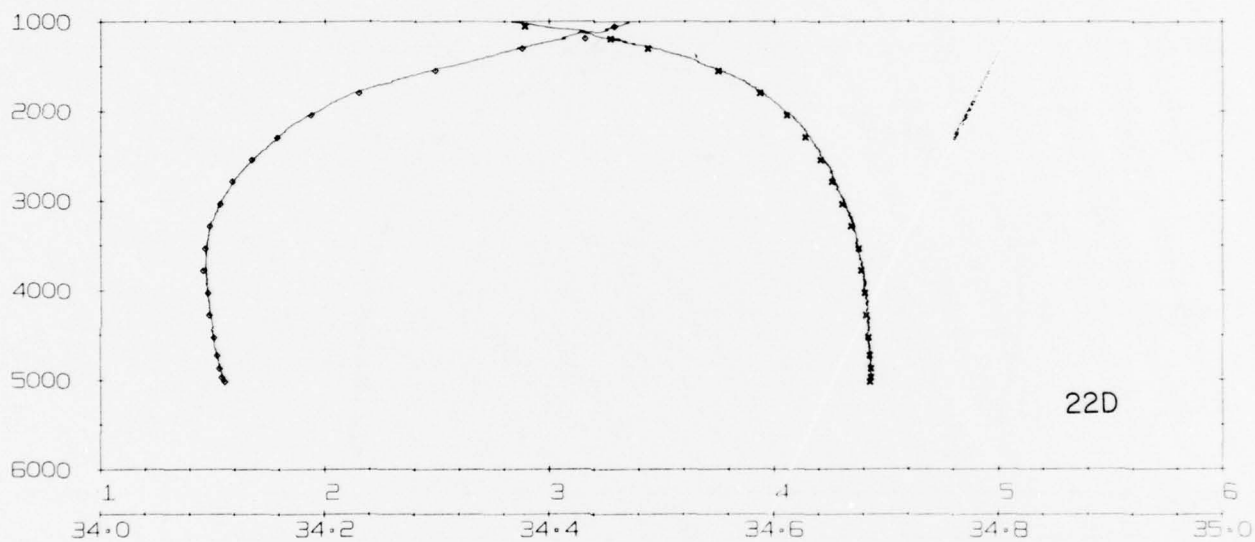
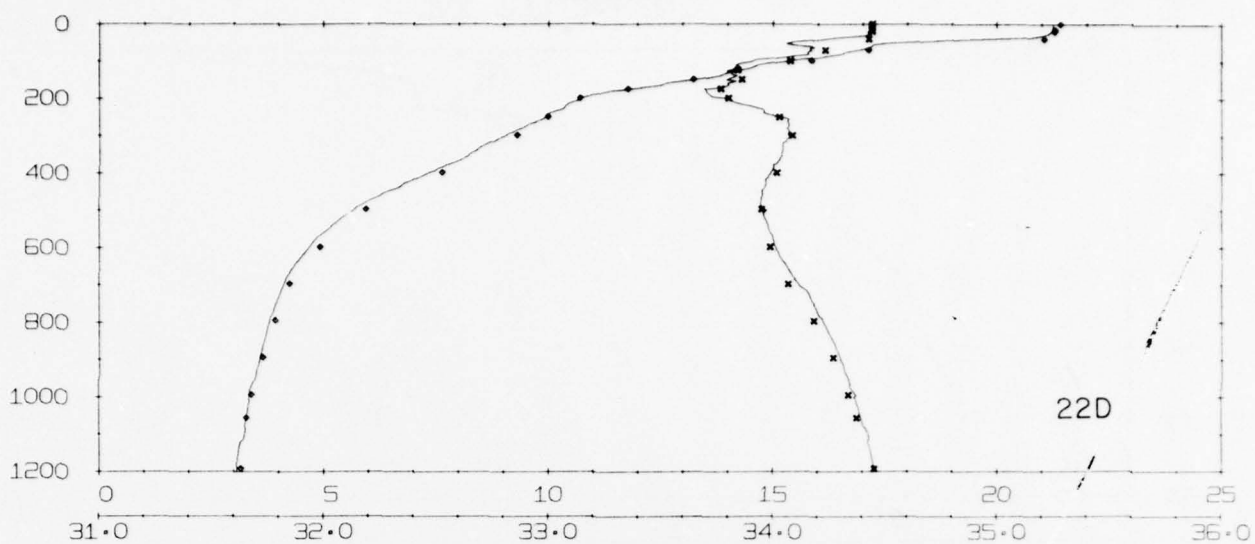
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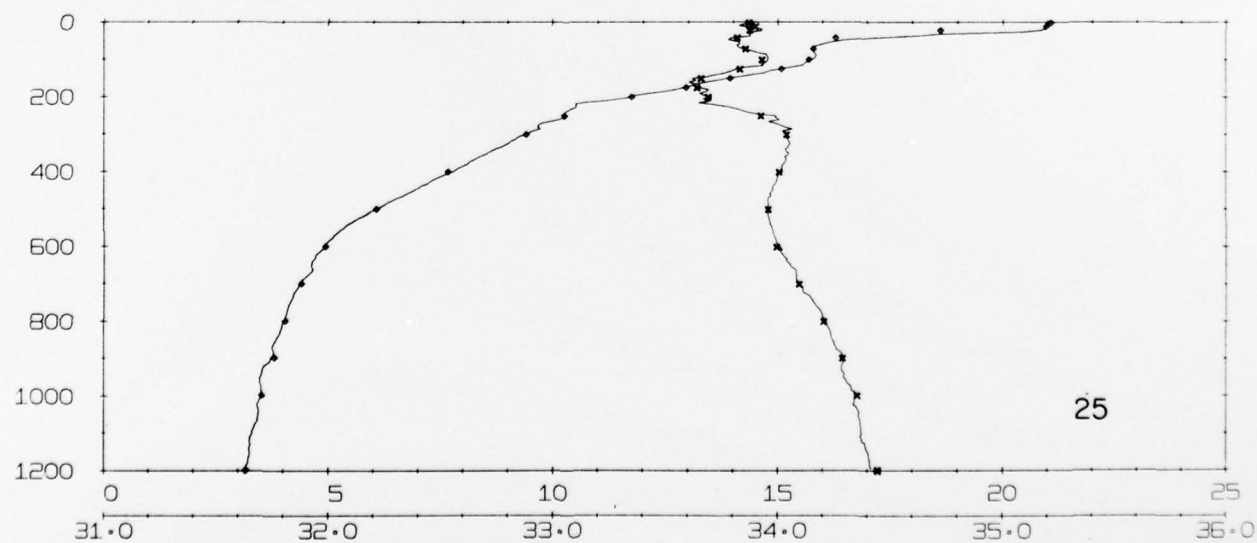
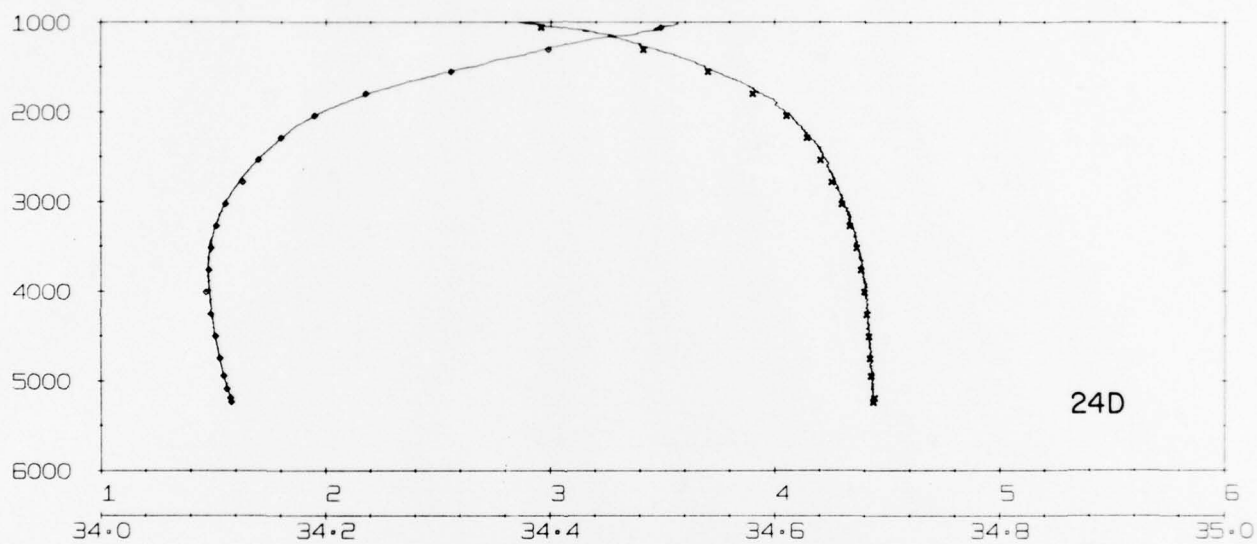
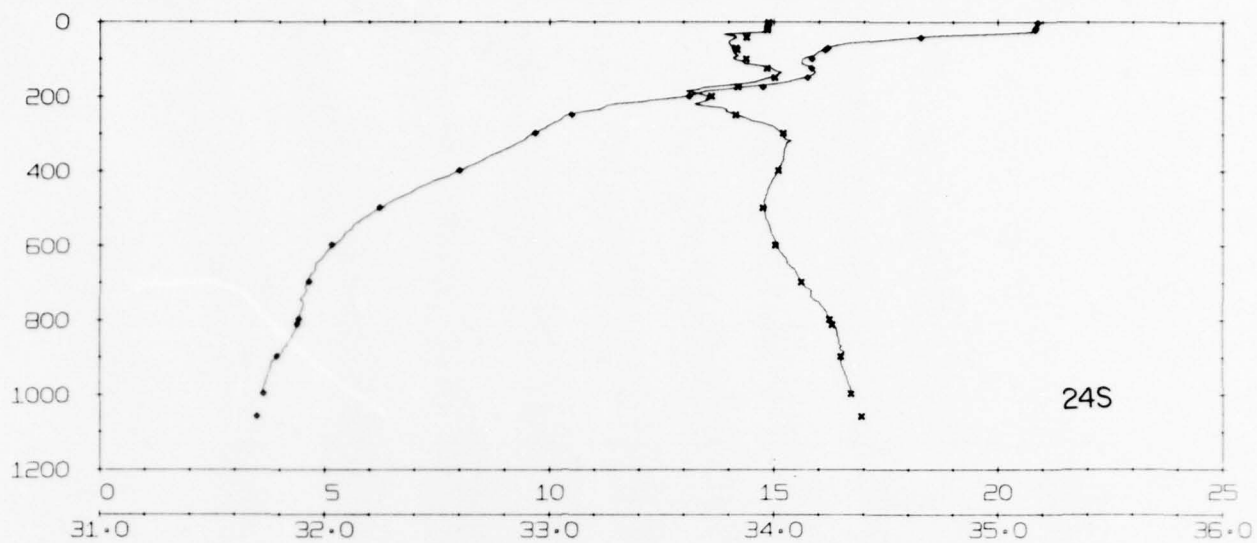
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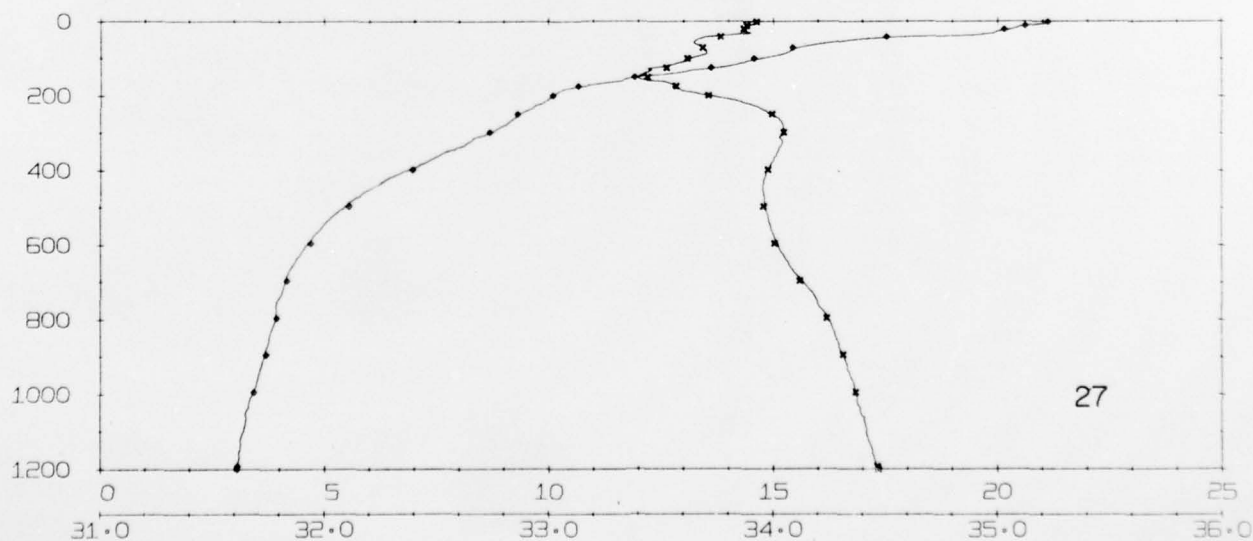
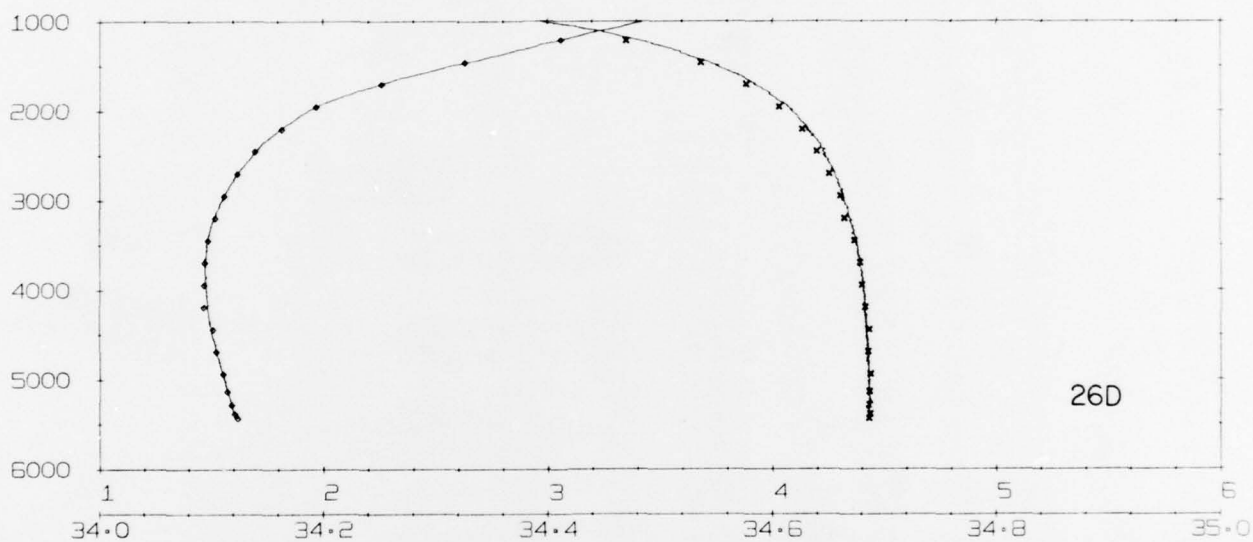
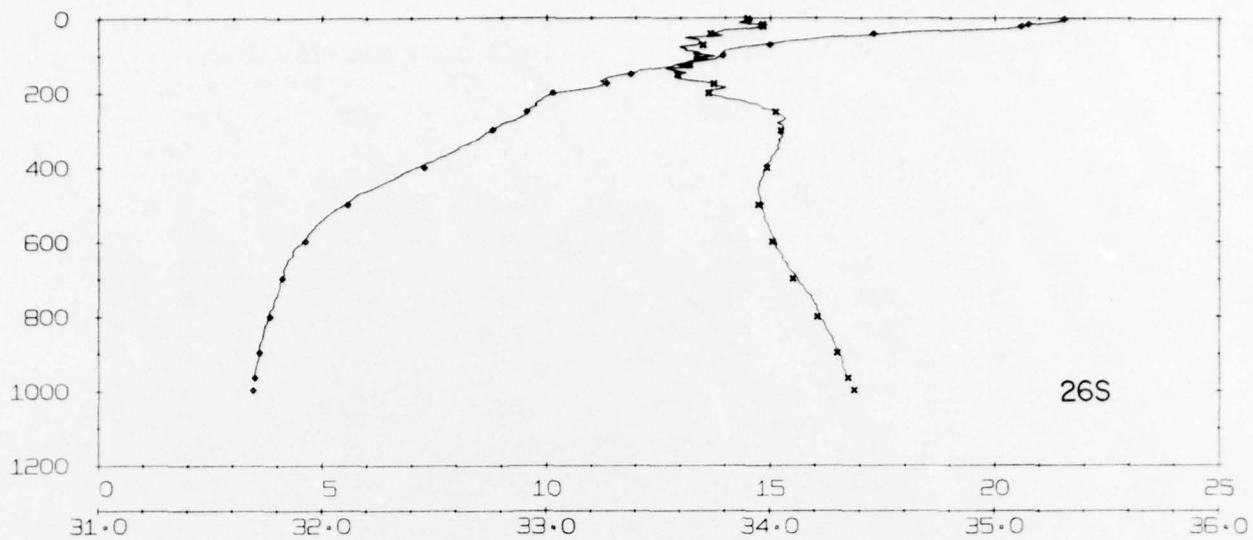
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INDOPAC LEG XVI



INDOPAC - LEG XVI - CHLOROPHYLL-A AND PHAEOPHYTIN

Station 2: 10 July 1977 0635 GMT

30° 46.2'N 163° 30.4'W

<u>Z</u>	<u>CHLa</u>	<u>PHAEO</u>
1	0.03	0.00
22	0.02	0.00
41	0.04	0.01
71	0.05	0.01
99	0.08	0.05
123	0.15	0.10
148	0.04	0.06
172	0.02	0.02
196	0.01	0.02
245	0.00	0.01
295	0.00	0.01
392	0.00	0.01

Station 6: 13 July 1977 1440 GMT

35° 10.8'N 159° 59.2'W

<u>Z</u>	<u>CHLa</u>	<u>PHAEO</u>
1	0.05	0.00
10	0.06	0.01
21	0.06	0.00
41	0.08	0.01
50	0.14	0.00
60	0.17	0.05
71	0.24	0.10
80	0.33	0.11
90	0.25	0.13
100	0.25	0.08
125	0.08	0.03
150	0.03	0.00
175	0.01	0.02
200	0.00	0.02

Station 10: 15 July 1977 0638 GMT

35° 09.9'N 156° 02.4'W

<u>Z</u>	<u>CHLa</u>	<u>PHAEO</u>
1	0.06	0.00
10	0.04	0.01
21	0.04	0.00
31	0.05	0.00
41	0.05	0.00
51	0.06	0.01
61	0.12	0.03
71	0.41	0.10
81	0.30	0.12
91	0.21	0.17
100	0.16	0.08
124	0.06	0.05
149	0.02	0.01
174	0.01	0.01
199	0.00	0.00

Station 4: 12 July 1977 1914 GMT

35° 09.2'N 162° 01.2'W

<u>Z</u>	<u>CHLa</u>	<u>PHAEO</u>
1	0.05	0.00
21	0.08	0.03
41	0.16	0.00
71	0.38	0.12
100	0.14	0.04
125	0.07	0.05
150	0.03	0.03
175	0.02	0.02
200	0.01	0.02
250	0.01	0.02
299	0.01	0.02
399	0.00	0.01

Station 8: 14 July 1977 1010 GMT

35° 09.2'N 158° 00.0'W

<u>Z</u>	<u>CHLa</u>	<u>PHAEO</u>
1	0.04	0.00
10	0.04	0.00
21	0.04	0.00
41	0.07	0.01
51	0.09	0.01
61	0.17	0.02
70	0.47	0.16
80	0.39	0.22
90	0.33	0.20
99	0.25	0.15
123	0.11	0.07
148	0.02	0.01
173	0.00	0.01
198	0.00	0.01

Station 12: 17 July 1977 0651 GMT

35° 09.9'N 153° 58.0'W

<u>Z</u>	<u>CHLa</u>	<u>PHAEO</u>
1	0.06	0.00
10	0.04	0.00
21	0.05	0.00
31	0.05	0.00
41	0.05	0.01
50	0.06	0.00
60	0.11	0.00
70	0.13	0.03
80	0.27	0.10
90	0.42	0.17
99	0.28	0.11
124	0.08	0.06
148	0.03	0.01
173	0.01	0.01
198	0.00	0.01

Station 14: 17 July 1977 0655 GMT

35° 10.1'N 151° 57.0'W

<u>Z</u>	<u>CHLa</u>	<u>PHAEO</u>
1	0.05	0.00
10	0.05	0.00
21	0.04	0.00
31	0.05	0.00
41	0.05	0.00
51	0.06	0.01
61	0.06	0.03
72	0.11	0.02
81	0.15	0.03
91	0.24	0.11
101	0.29	0.21
126	0.13	0.13
151	0.06	0.03
176	0.02	0.02
200	0.00	0.01

Station 16: 18 July 1977 0040 GMT

35° 10.4'N 149° 59.5'W

<u>Z</u>	<u>CHLa</u>	<u>PHAEO</u>
1	0.05	0.00
10	0.03	0.01
21	0.04	0.00
31	0.04	0.00
41	0.05	0.00
51	0.05	0.00
61	0.06	0.01
71	0.07	0.01
81	0.08	0.01
91	0.11	0.03
100	0.14	0.05
125	0.19	0.13
150	0.05	0.04
175	0.03	0.02
200	0.01	0.01

Station 18: 20 July 1977 2231 GMT

35° 10.4'N 147° 58.3'W

<u>Z</u>	<u>CHLa</u>	<u>PHAEO</u>
1	0.06	0.00
10	0.06	0.00
21	0.06	0.00
31	0.06	0.00
40	0.07	0.00
50	0.11	0.00
60	0.15	0.00
70	0.24	0.05
80	0.49	0.20
89	0.50	0.25
98	0.30	0.18
123	0.12	0.11
147	0.02	0.01
172	0.01	0.01
197	0.01	0.01

Station 20: 22 July 1977 0502 GMT

35° 10.4'N 145° 59.1'W

<u>Z</u>	<u>CHLa</u>	<u>PHAEO</u>
1	0.07	0.00
10	0.06	0.00
21	0.06	0.00
31	0.06	0.01
41	0.06	0.01
51	0.07	0.00
61	0.07	0.00
71	0.07	0.01
81	0.09	0.01
91	0.10	0.02
100	0.12	0.03
125	0.15	0.14
150	0.10	0.07
174	0.05	0.03
199	0.02	0.02

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Station 22: 22 July 1977 2115 GMT

35° 10.3'N 143° 59.8'W

<u>Z</u>	<u>CHLa</u>	<u>PHAEO</u>
0	0.07	0.00
10	0.07	0.00
20	0.06	0.00
30	0.07	0.00
40	0.07	0.00
50	0.08	0.00
60	0.07	0.00
70	0.07	0.00
81	0.09	0.01
91	0.10	0.01
99	0.13	0.01
124	0.17	0.14
149	0.10	0.13
174	0.05	0.07
199	0.02	0.01

Station 24: 23 July 1977 1339 GMT

35° 09.3'N 142° 00.3'W

<u>Z</u>	<u>CHLa</u>	<u>PHAEO</u>
1	0.07	0.00
10	0.07	0.00
21	0.07	0.00
31	0.08	0.00
41	0.07	0.00
51	0.08	0.00
60	0.07	0.00
70	0.07	0.01
80	0.09	0.01
90	0.09	0.01
99	0.10	0.02
124	0.14	0.11
149	0.12	0.12
174	0.06	0.07
199	0.04	0.06

Station 26: 24 July 1977 0523 GMT

35° 10.6'N 139° 58.0'W

<u>Z</u>	<u>CHLa</u>	<u>PHAEO</u>
1	0.07	0.00
10	0.07	0.00
21	0.06	0.00
31	0.06	0.00
41	0.06	0.00
51	0.07	0.00
61	0.08	0.00
71	0.07	0.00
81	0.11	0.01
90	0.11	0.01
100	0.15	0.09
125	0.19	0.21
150	0.07	0.11
175	0.04	0.04
200	0.01	0.01

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